

The Road Inventory of Bear River Migratory Bird Refuge Brigham City, UT



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Federal Highway Administration
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INTRODUCTION

The Transportation Equity Act for the 21st Century (Public Law 105-178) created the Refuge Roads Program. Refuge roads are those public roads that provide access to or within a unit of the National Wildlife Refuge System and for which title and maintenance responsibility is vested in the United States Government. Funds from the Highway Trust Fund are available for refuge roads and can be used by the station to pay the cost of:

- (a) Maintenance and improvements of refuge roads.
- (b) Maintenance and improvements of:
 - (1) Adjacent vehicle parking areas
 - (2) Provision for pedestrians and bicycles and
 - (3) Construction and reconstruction of roadside rest areas that are located in or adjacent to wildlife refuges
- (c) Administrative costs associated with such maintenance and improvements.

The funds available for refuge roads are to be disbursed based on the relative needs of the various refuges in the National Wildlife Refuge System, and taking into consideration:

- (a) The comprehensive conservation plan for each refuge;
- (b) The need for access as identified through land use planning; and
- (c) The impact of land use planning on existing transportation facilities.

To determine the relative needs of the U.S. Fish and Wildlife Service, the Federal Highway Administration (FHWA) was asked to inventory all public access roads and parking lots and provide a condition assessment of each. In 2008 the inventory was expanded to include administrative (service use only) roads and parking lots. An FHWA representative meets with refuge personnel to identify route segments and assign route numbers and functional classifications (See Appendix) for each route. All roads and parking lots are mapped using Trimble GPS units and visually assessed for condition using the RSL method of evaluation developed at Utah State University (See Appendix). Culverts, Gates, Guardrails and Low Water Crossings are also mapped and inspected for any obvious defects.

An estimate is provided, in year 2008 dollars, based on the condition determined by the rating system. Estimates are based upon data and location factors from the 2008 RS Means Heavy Construction Cost Data 22nd Annual Edition. Cost estimates should be evaluated on a case-by-case basis when being used for programming purposes.

Native Surfaced roads and parking lots already inventoried will not be re-inventoried and will not appear individually in report chapters 5, 6 and 8. Mileages and areas of native surfaced roads and parking lots will still appear in all summaries in the report and will remain in the road inventory database. In addition to this report, the FHWA will furnish the condition ratings of each route and segment to the Fish and Wildlife Service in a Microsoft Access database so the data can be included in their Real Property Inventory.

Bear River Migratory Bird Refuge - 65530

Summaries

Route Miles and Percentages by Functional Class and Condition

F. C.	Condition Rating (Based on RSL)*										TOTAL MILES
	Excellent		Good		Fair		Poor		Failed		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
I	11.24	92.1%	0.96	7.9%							12.20
II	1.30	83.8%	0.21	13.3%	0.04	2.9%					1.55
III											
IV	0.06	1.7%	2.60	72.6%	0.92	25.7%					3.58
V	32.19	44.9%	36.31	50.7%	3.15	4.4%					71.65
Totals	44.79	50.3%	40.08	45%	4.12	4.6%					88.98

*For a description of condition ratings for the various surface types see the Appendix.

Route Miles and Percentages by Surface Type and Condition

S. T.	Paved Condition Rating [Condition(RSL)]										TOTAL MILES
	Excellent (19-20)		Good (13-18)		Fair (7-12)		Poor (1-6)		Failed (0)		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
AS	0.346255	100.0%									0.35
CO											
Totals	0.35	100%									0.35

S. T.	Unpaved Condition Rating [Condition(RSL)]										TOTAL MILES
	Excellent (8-10)		Good (5-7)		Fair (3-4)		Poor (1-2)		Failed (0)		
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%	
GR	41.92	58.7%	28.80	40.3%	0.75	1.0%					71.47
NA	2.52	14.7%	11.28	65.7%	3.37	19.6%					17.17
PR											
Totals	44.44	50.1%	40.08	45.2%	4.12	4.6%					88.63

Square Footage (Parking Areas)

S. T.	Condition Rating										Total Square Feet
	Excellent		Good		Fair		Poor		Failed		
	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	Square Feet	%	
AS	74808	100%									74808
CO	1873	100%									1873
GR	27388	12.1%	60216	26.5%	136102	59.9%	3411	1.5%			227117
NA							5105	100%			5105
PR											
Totals	104069	33.7%	60216	19.5%	136102	44.1%	8516	2.8%			308903

Bear River Migratory Bird Refuge - 65530

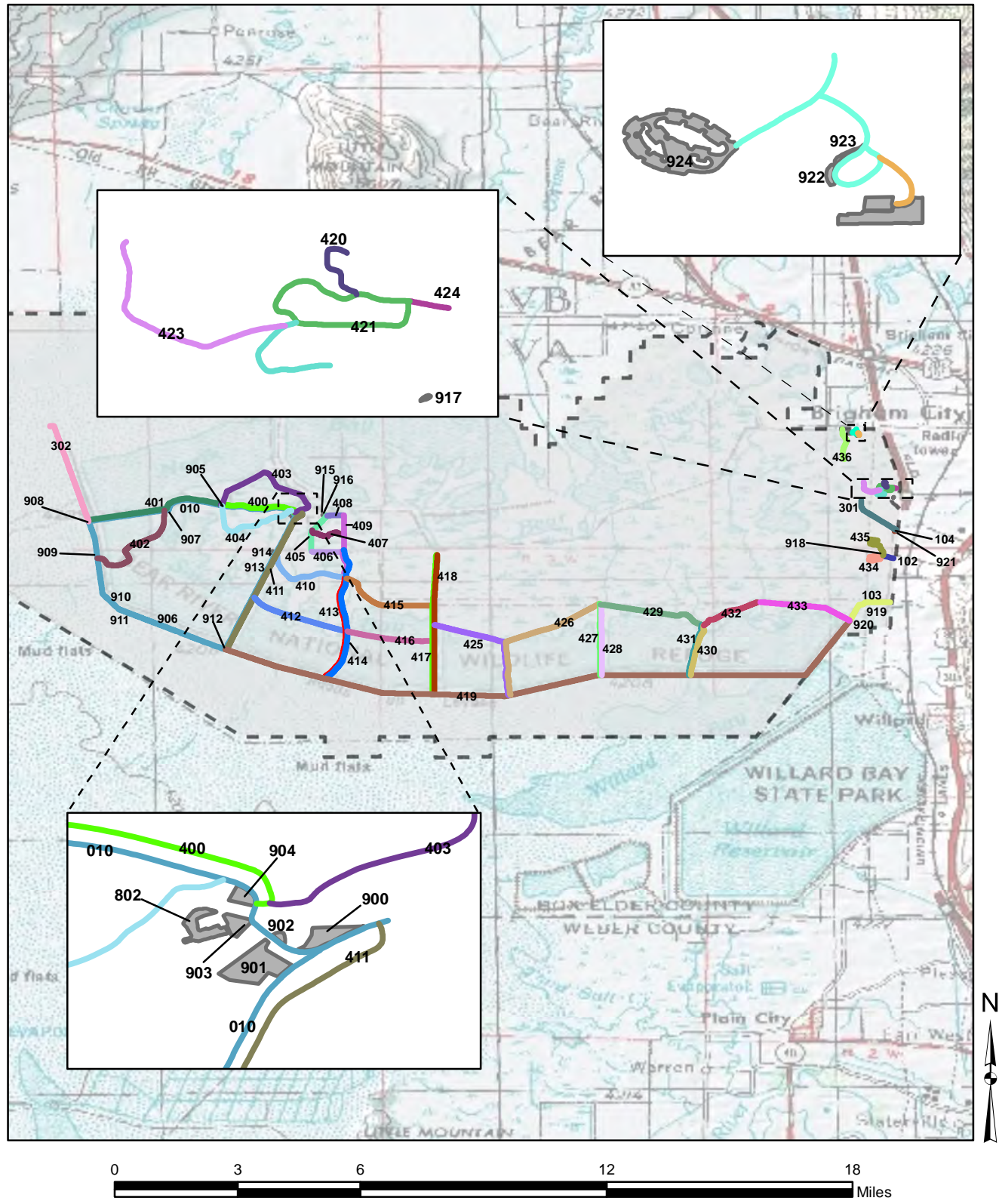
Summaries

Route Miles and Percentages by Use Type and Condition

USE TYPE	Road Condition Rating: Public/Administrative Use										TOTAL MILES	PERCENT TOTAL MILES
	Excellent		Good		Fair		Poor		Failed			
	MILES	%	MILES	%	MILES	%	MILES	%	MILES	%		
Public (FC I-III)	12.53	91.2%	1.17	9%	0.04	0.3%					13.75	15%
Admin (FC IV-V)	32.25	42.9%	38.91	51.7%	4.07	5.4%					75.23	85%
Totals	44.79	50.3%	40.08	45%	4.12	4.6%					88.98	

USE TYPE	Parking Condition Rating										Total Square Feet	PERCENT TOTAL SF
	Excellent		Good		Fair		Poor		Failed			
	Square		Square		Square		Square		Square			
	Feet	%	Feet	%	Feet	%	Feet	%	Feet	%		
Public	31754	18.1%	37109	21.2%	98050	55.9%	8516	4.9%			175429	85%
Admin	6978	23.2%	23107	77%	0						30085	15%
Totals	38732	18.8%	60216	29.3%	98050	47.7%	8516	4.1%			205514	

BEAR RIVER MIGRATORY BIRD REFUGE ROUTE LOCATION MAP



Bear River MBR - 65530 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes
Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
010	10034121	Auto Tour Loop	12.20	From refuge boundary to end of loop	-	12.20	2	1
102	<Null>	White's Parking Access Road	0.21	From frontage road to White's Parking (Route 918)	-	0.21	1	2
103	10034024	Perry Parking Access Road	1.01	From frontage road to Perry Hunter Parking #2 (Route 920)	-	1.01	1	2
104	<Null>	Hunter Access Road	0.04	From frontage road to Hunter Access Parking (Route 921)	-	0.04	2	2
105	10052696	Education Center Entrance Road	0.29	From Forest Street to Education Center Parking #1 (Route 922) and #2 (Route 923)	0.29	-	2	2
300	10052697	Education Center Employee and Fleet Vehicle Parking Access Road	0.06	From Education Center Entrance Road (Rte 105) to Employee Center Staff Parking #1 (Route 800) and #2 (Route 801)	0.06	-	2	4
301	10034118	Powerline Road	1.02	From frontage road to end of route	-	1.02	1	4
302	10034024	Bone Yard Access Road	2.49	From Auto Tour Loop Road (Route 010) to bone yard	-	2.49	1	4
400	10034149	North L-Line Dike Road	1.44	From Auto Tour Loop Road (Route 010) to Dike 1A Road (Route 403)	-	1.44	1	5
401	10034149	North L-Line Dike Road #2	2.60	From Dike 1A Road (Route 403) to Boneyard Access Road (Route 303)	-	2.60	1	5
402	10034190	Dike 2C Road	2.30	From Auto Tour Loop Road (Route 010) to Auto Tour Loop Road (Route 010)	-	2.30	1	5
403	10034030	Dike 1A Road	2.73	From North L-Line Dike Road (Rte 400) to Auto Tour Loop Road (Route 010)	-	2.73	1	5
404	10034181	Unit 2B Dike Road	1.99	From Auto Tour Loop Road (Route 010) to Auto Tour Loop Road (Route 010)	-	1.99	1	5
405	10034159	Duckville West Dike Road	0.98	From Duckville Parking (Route 915) to Duckville South Dike Road (Route 406)	-	0.98	1	5
406	10034158	Duckville South Dike Road	0.57	From Duckville West Dike Road (Route 405) to Duckville East Dike Road (Route 410)	-	0.57	1	5
407	10034151	Duckville Center Dike Road	0.71	From Duckville East Dike Road (Route 410) to Duckville West Dike Road (Route 405)	-	0.71	1	5
408	10034156	Duckville North Dike Road	0.30	From Duckville Boat Ramp Parking (Route 916) to Duckville East Dike Road (Route 410)	-	0.30	1	5
409	10034157	Duckville East Dike Road	1.57	From Duckville North Dike Road (Route 409) to Cottonwood Dike Road (Route 414)	-	1.57	1	5
410	10045609	3B North Road	1.69	From Duckville East Dike Road (Route 410) to H-line East Dike Road (Route 412)	-	1.69	1	5
411	10034147	H-Line East Dike Road	3.62	From Auto Tour Loop Road (Route 010) to D-Line Dike Road (Route 420)	-	3.62	1	5
412	10034083	3B South Dike Road	1.90	From H-Line East Dike Road (Route 412) to Cottonwood Dike Road (Route 414)	-	1.90	1	5
413	10034088	Cottonwood Dike Road	2.57	From D-Line Dike Road (Route 420) to Duckville East Dike Road (Route 410)	-	2.57	1	5
414	10034110	Unit 3 Drain East Dike Road	3.30	From Duckville East Dike Road (Route 410) to D-Line Dike Road (Route 420)	-	3.30	1	5
415	10034179	South 3G Dike Road	1.90	From Unit 3 Drain East Dike Road (Route 415) to West O-Line Dike Road (Route 418)	-	1.90	1	5
416	10034083	3F South Dike Road	1.58	From West O-Line Dike Road (Route 418) to Unit 3 Drain East Dike Road (Route 415)	-	1.58	1	5

Bear River MBR - 65530 - ROUTE IDENTIFICATION LIST (NUMERIC)

Shading Color Key:

White = Paved Routes
Yellow = Unpaved Routes

RTE #	Asset Number	ROUTE NAME	RTE MI	ROUTE DESCRIPTION	PAVED MI	UN-PAVED MI	LANES	FC
417	10034140	West O-Line Dike Road	3.40	From D-Line Dike Road (Route 420) to County Road	-	3.40	1	5
418	10034027	East O-Line Dike Road	3.40	From County Road to D-Line Dike Road (Route 420)	-	3.40	1	5
419	10050366	D-Line Dike Road	12.47	From H-Line Parking #1 (Route 912) to Perry Hunter Parking #2 (Route 920)	-	12.47	1	5
420	10045928	Nichols Pond 2 Road	0.17	From Nichols Pond 3 Road (Route 421) to end of route	-	0.17	1	5
421	10045976	Nichols Pond 3 Road	0.61	From Nichols Unit Access Road (Route 425) to end of loop	-	0.61	1	5
422	10045980	Nichols Pond 4 Road	0.27	From Nichols Pond 3 Road (Route 421) to end of dike	-	0.27	1	5
423	10045933	Nichols Pond 5 Road	0.50	From Nichols Pond 4 Road (Route 422) to end of route	-	0.50	1	5
424	10034177	Nichols Unit Access Road	0.07	From frontage road to Nichols Pond 3 Road (Route 421)	-	0.07	1	5
425	10034027	4B Dike Road	2.71	From East O-Line Dike Road (Rte 419) to D-Line Dike Road (Route 420)	-	2.71	1	5
426	10034214	4C Dike Road	3.28	From D-Line Dike Road (Rte 420) to Whistler (P-Line) West Road (Route 428)	-	3.28	1	5
427	10034140	Whistler (P-Line) West Road	1.75	From 4C Dike Road (Route 427) to D-Line Dike Road (Route 420)	-	1.75	1	5
428	10034028	Whistler (P-Line) East Road	1.72	From D-Line Dike Road (Route 420) to Dike Service Road (Route 430)	-	1.72	1	5
429	10034055	Dike Service Road	2.01	From Whistler (P-Line) West Road (Route 428) to West Unit 5 Drain Dike Road (Route 431)	-	2.01	1	5
430	10034109	West Unit 5 Drain Dike Road	1.26	From Dike Service Road (Route 430) to D-Line Dike Road (Route 420)	-	1.26	1	5
431	10034100	East Unit 5 Drain Dike Road	1.25	From D-Line Dike Road (Route 420) to 5C North Dike Road West (Route 433)	-	1.25	1	5
432	10034100	5C North Dike Road West	1.17	From East Unit 5 Drain Dike Road (Route 432) to end of route	-	1.17	1	5
433	10034055	5C North Dike Road East	1.75	From Perry Hunter Parking #2 (Route 920) to end of route	-	1.75	1	5
434	10045966	W7 Pond Access Road	0.62	From White's Parking (Route 918) to end of loop	-	0.62	1	5
435	10045953	W5 Pond Access Road	0.70	From White's Parking (Route 918) to end of route	-	0.70	1	5
436	10058177	North Nichols Access Road	0.77	From Forest Street to end of route	-	0.77	1	5

Bear River MBR - 65530 - ROUTE IDENTIFICATION LIST (PARKING)

Shading Color Key:

Green = Unpaved Parking Lots
Blue = Paved Parking Lots

RTE #	ASSET NUMBER	ROUTE NAME	RTE SQFT	ROUTE DESCRIPTION	PAVED SQFT	UN-PAVED SQFT
800	10052698	Education Center Staff Parking #1	6978		6978	-
801	10052698	Education Center Staff Parking #2	23107		-	23107
802	<Null>	Shop Heavy Equipment Parking			-	38052
900	10034120	Visitor Parking #1	4067		-	4067
901	10034120	Visitor Parking #2	9478		-	9478
902	10034120	Information Kiosk Parking	4829		-	4829
903	10051727	Shop Parking	19940		-	19940
904	10034120	Visitor Parking #3	17613		-	17613
905	10051741	Peabody Parking	25435		-	25435
906	10051741	Auto Tour Parking	5858		-	5858
907	10051743	S-Curve Parking	1507		-	1507
908	10051741	D-Line Parking #1	4158		-	4158
909	10051741	D-Line Parking #2	965		-	965
910	10051741	D-Line Parking #3	8190		-	8190
911	10051741	D-Line Parking #4	1067		-	1067
912	10051741	H-Line Parking #1	4530		-	4530
913	10051741	H-Line Parking #2	2923		-	2923
914	10051741	H-Line Observation Deck Parking	15380		-	15380
915	10051743	Duckville Parking	27388		-	27388
916	10051743	Duckville Boat Ramp Parking	1747		-	1747
917		1100 South Observation Deck Parking	3924		-	3924
918	10051744	White's Parking	5105		-	5105
919	10051746	Perry Hunter Parking #1	969		-	969
920	10051746	Perry Hunter Parking #2	3548		-	3548
921		Hunter Access Parking Lot	2442		-	2442
922	10052695	Education Center Parking #1	2493		2493	-
923	10052695	Education Center Parking #2	1873		1873	-
924	10052695	Education Center Parking #3			65337	-

CHANGES TO THE FISH AND WILDLIFE SERVICE ROAD INVENTORY REPORT

Bear River

Routes added to previous inventory:

Rte #	Rte Name	Reason for Addition

Routes removed from previous inventory:

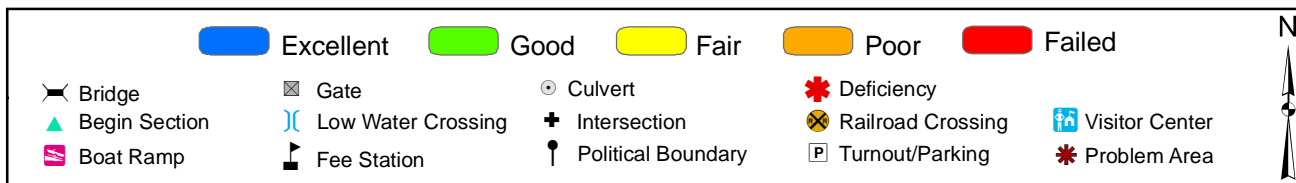
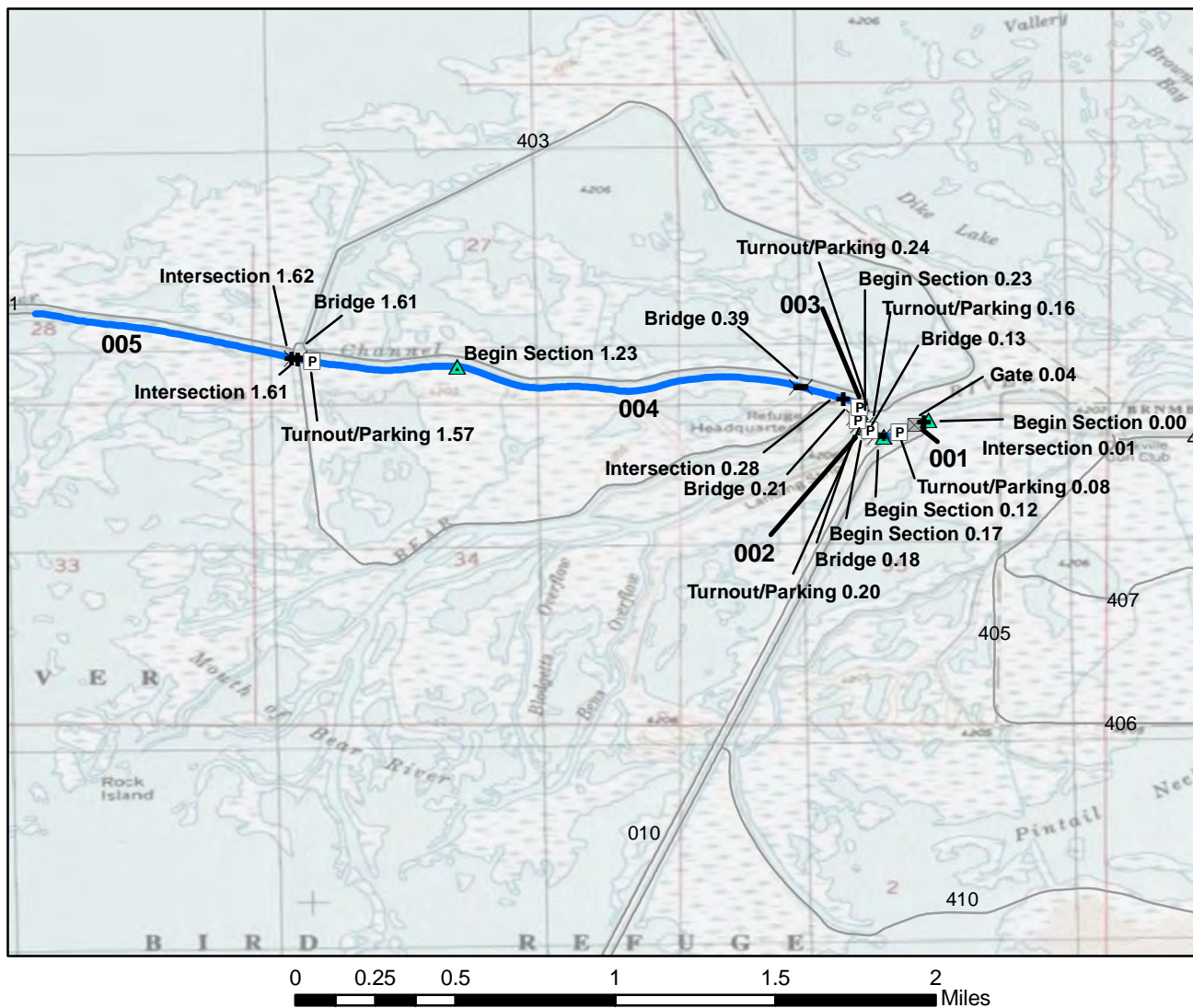
Rte #	Rte Name	Reason for Removal

Routes modified from previous inventory:

Rte #	Rte Name	Type of Modification	Description of Modification

Comments:

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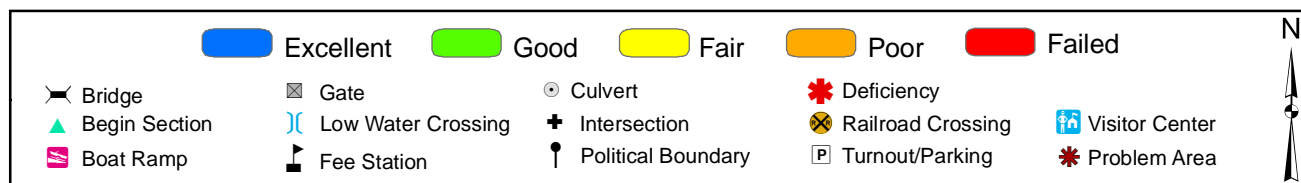
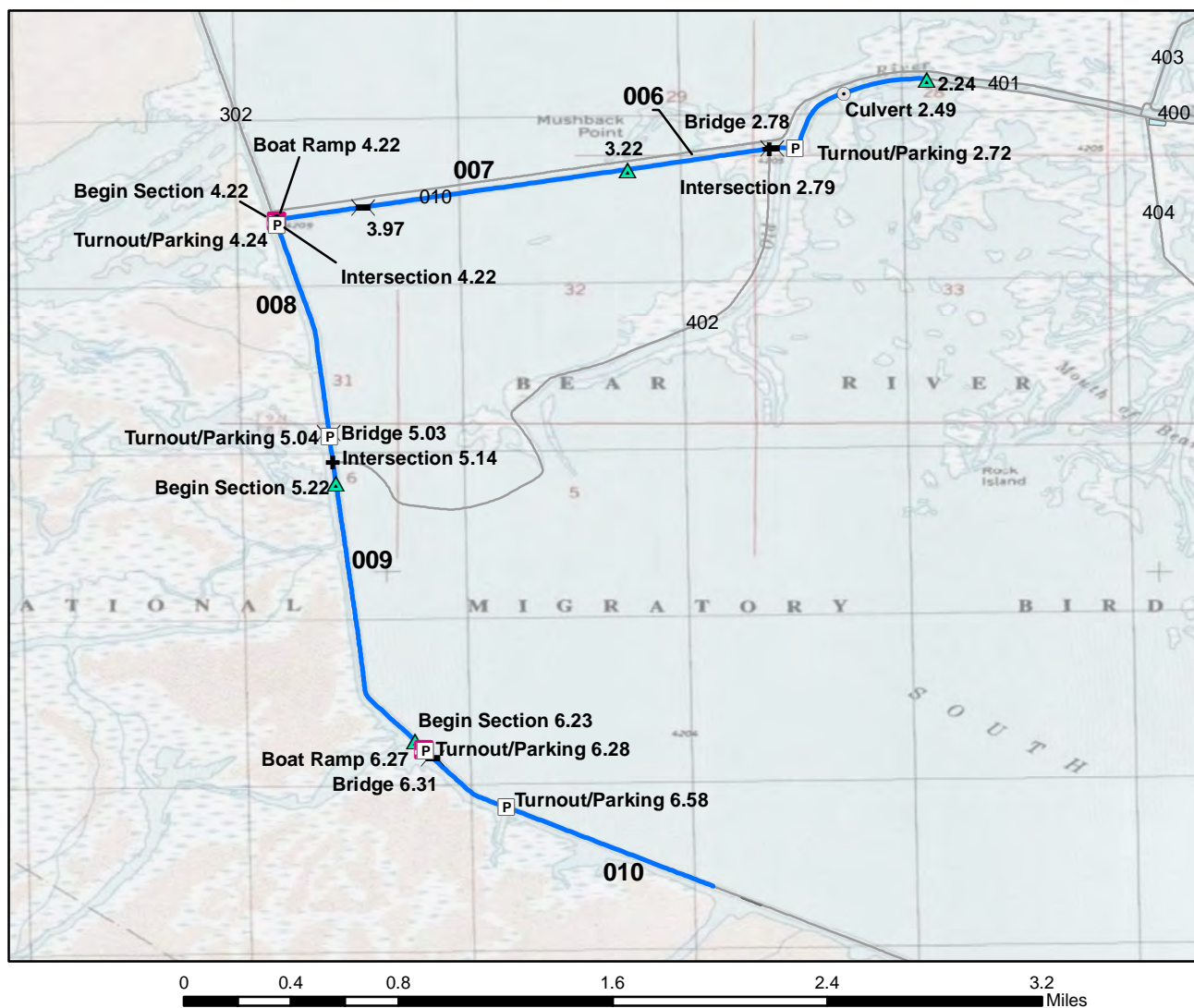
ROUTE: 010 Auto Tour Loop

TOTAL LENGTH: 12.20 Miles

ASSET: 10034121

RTE DESCRIPTION: From refuge boundary to end of loop

Section Number	001	002	003	004	005
Section Length (miles)	0.12	0.05	0.06	1.00	1.01
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	4/24/2008
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Number of Lanes	2	2	2	2	2
Roadway Width (feet)	28	16	16	16	16
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	Excellent
Remaining Service Life (years)	10	10	10	9	9
Cost Estimate	\$0	\$0	\$0	\$0	\$0
CRV	\$78400	\$34900	\$39400	\$661600	\$672300



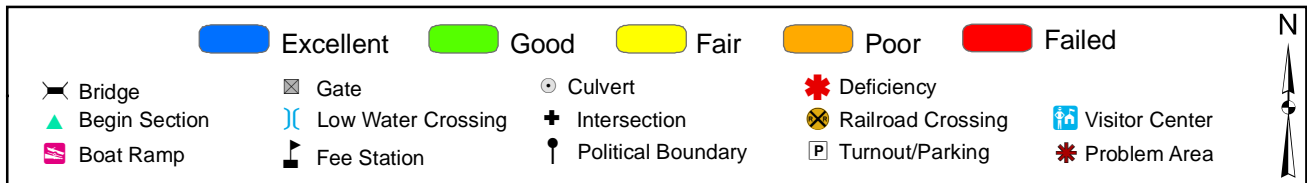
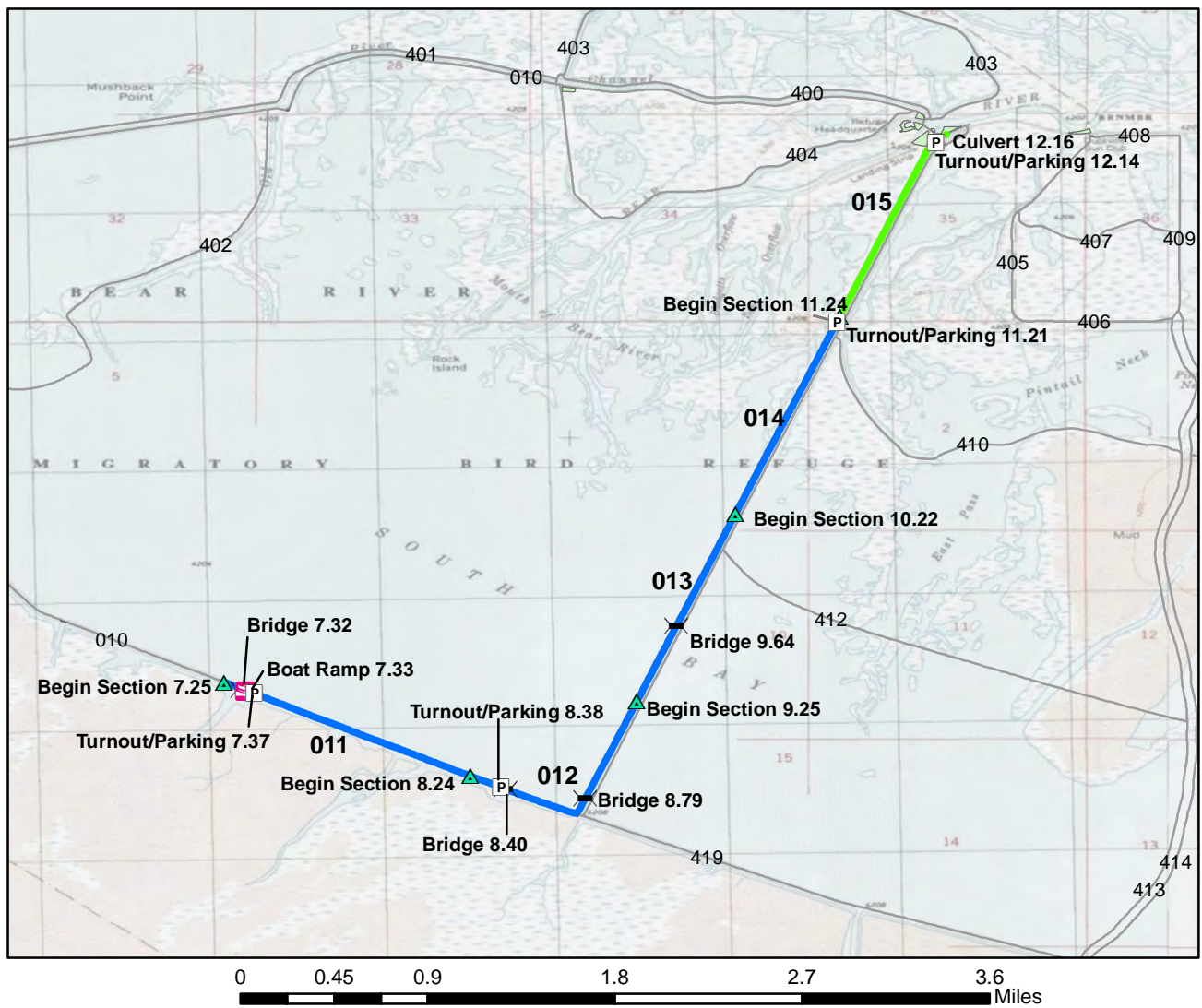
ROUTE: 010 Auto Tour Loop

TOTAL LENGTH: 12.20 Miles

ASSET: 10034025

RTE DESCRIPTION: From refuge boundary to end of loop

Section Number	006	007	008	009	010
Section Length (miles)	0.98	1.01	0.99	1.02	1.01
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	4/24/2008
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Number of Lanes	2	2	2	2	2
Roadway Width (feet)	16	16	16	16	16
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	Excellent
Remaining Service Life (years)	9	9	9	9	9
Cost Estimate	\$0	\$0	\$0	\$0	\$0
CRV	\$650300	\$668400	\$660500	\$674400	\$673700



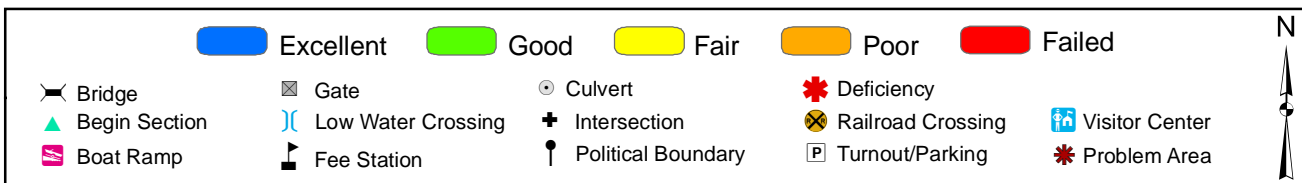
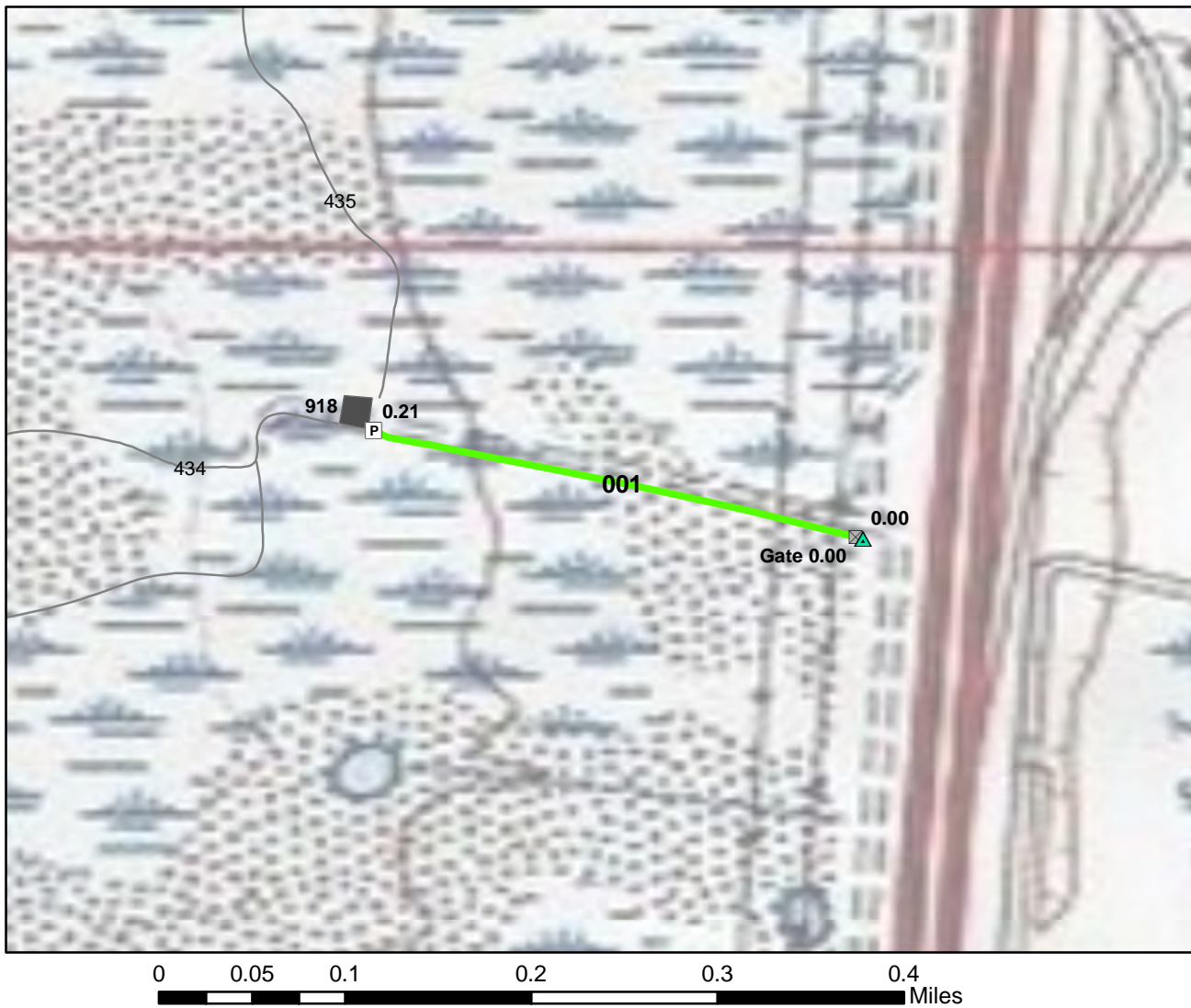
ROUTE: 010 Auto Tour Loop

TOTAL LENGTH: 12.20 Miles

ASSET: 10050366

RTE DESCRIPTION: From refuge boundary to end of loop

Section Number	011	012	013	014	015
Section Length (miles)	1.00	1.01	0.97	1.02	0.96
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	4/24/2008
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Number of Lanes	2	2	2	2	2
Roadway Width (feet)	16	16	16	16	16
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	Good
Remaining Service Life (years)	9	9	9	9	7
Cost Estimate	\$0	\$0	\$0	\$0	\$1500
CRV	\$662700	\$668600	\$642900	\$678200	\$641000

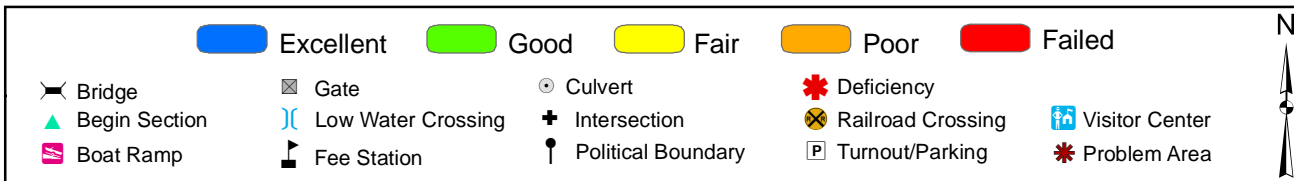
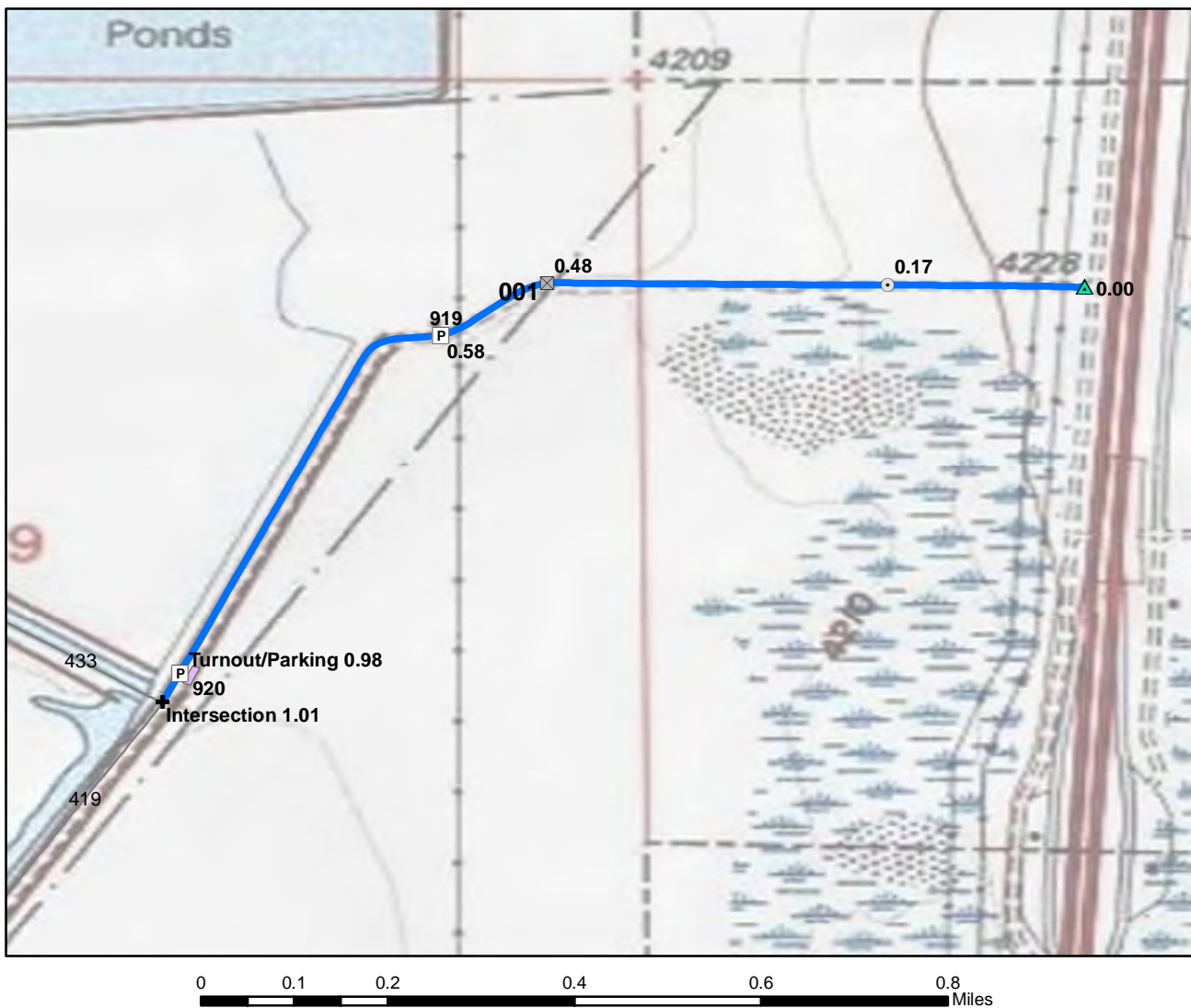


ROUTE: 102 White's Parking Access Road TOTAL LENGTH: 0.21 Miles

ASSET: <Null>

RTE DESCRIPTION: From frontage road to White's Parking (Route 918)

Section Number	001				
Section Length (miles)	0.21				
Inspection Date	4/23/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	14				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$300				
CRV	\$136900				

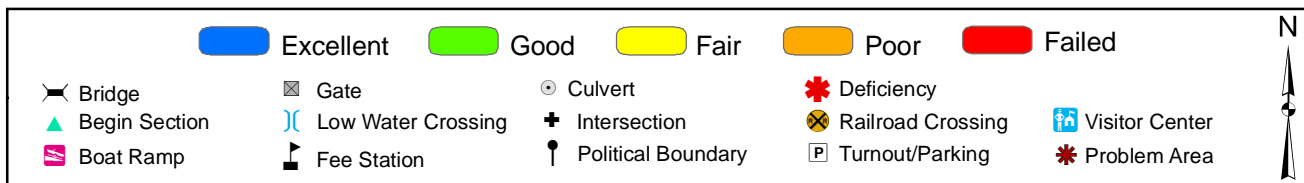
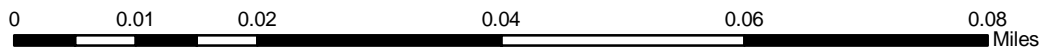
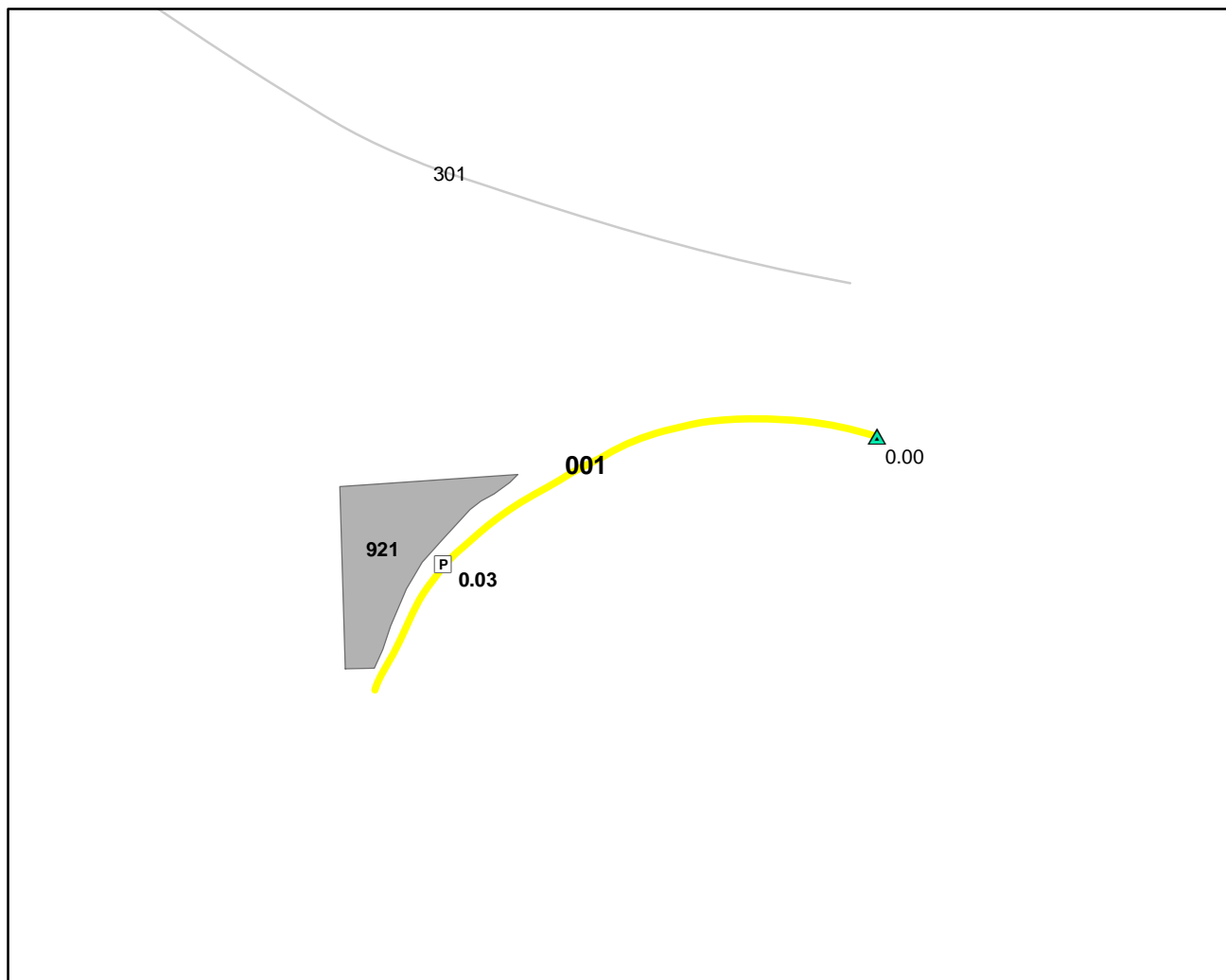


ROUTE: 103 Perry Parking Access Road TOTAL LENGTH: 1.01 Miles

ASSET: 10034024

RTE DESCRIPTION: From frontage road to Perry Hunter Parking #2 (Route 920)

Section Number	001				
Section Length (miles)	1.01				
Inspection Date	4/23/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	14				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	9				
Cost Estimate	\$0				
CRV	\$671000				



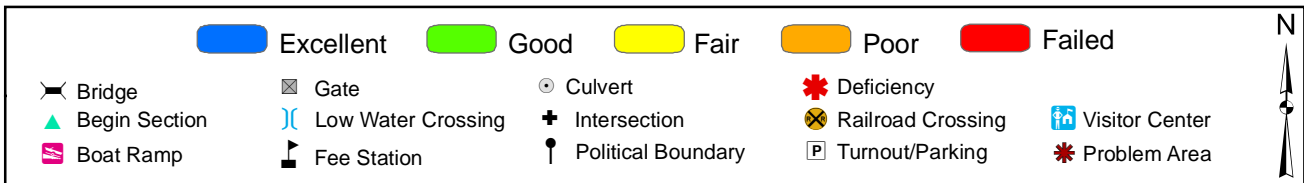
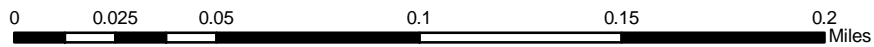
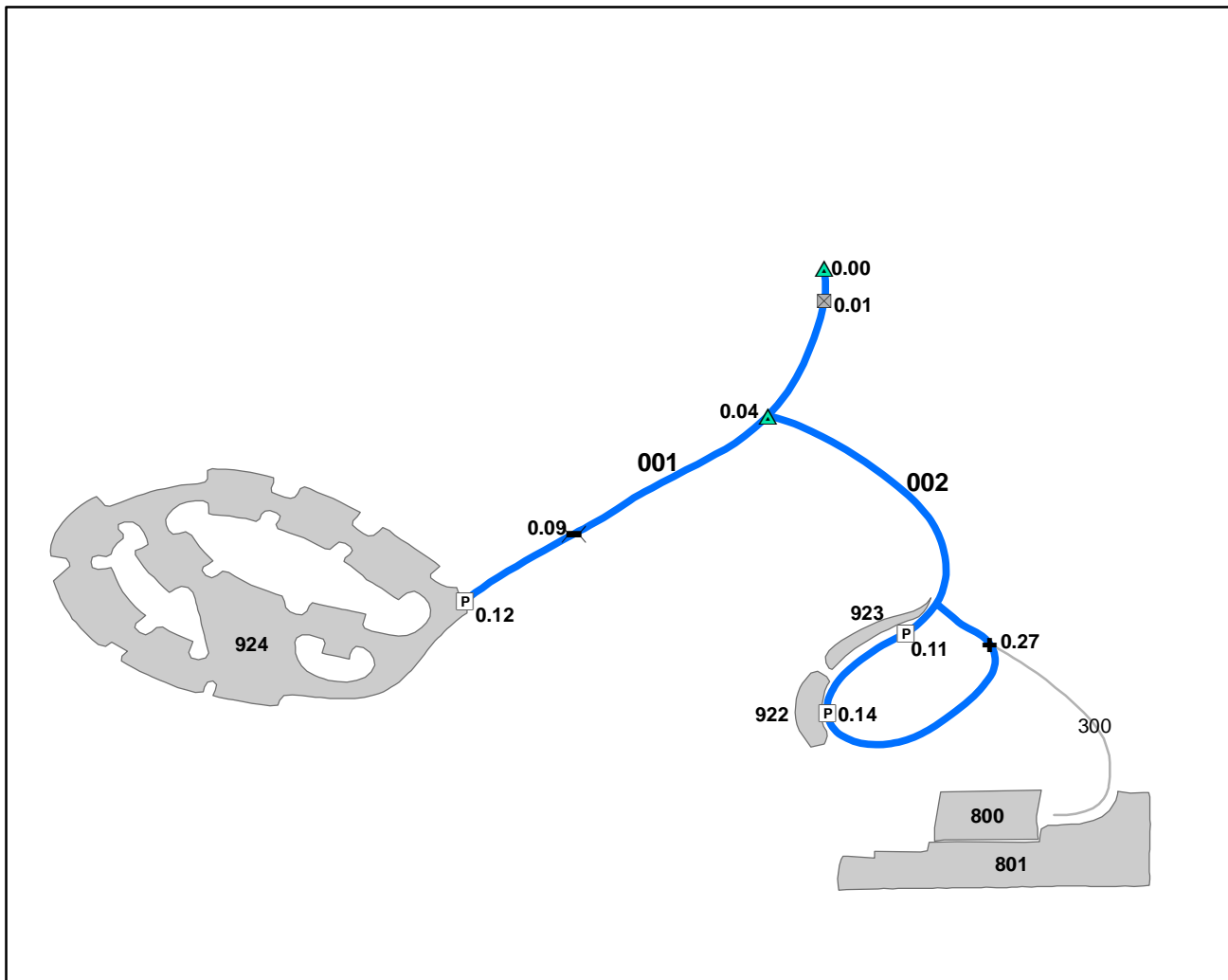
ROUTE: 104 Hunter Access Road

TOTAL LENGTH: 0.04 Miles

ASSET:

RTE DESCRIPTION: From frontage road to Hunter Access Parking (Route 921)

Section Number	001				
Section Length (miles)	0.04				
Inspection Date	6/30/2004				
Section Information					
Surface Type	Gravel				
Number of Lanes	2				
Roadway Width (feet)	18				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	4				
Cost Estimate	\$200				
CRV	\$29700				

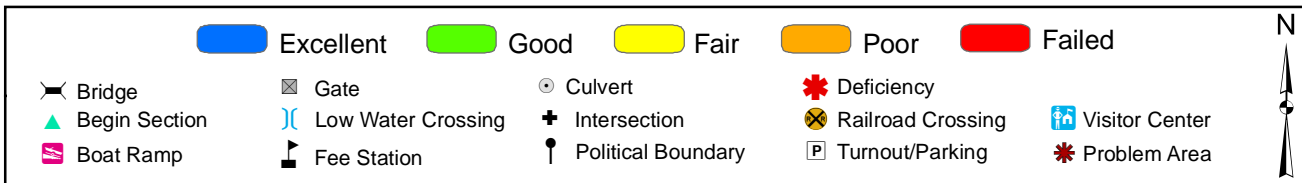
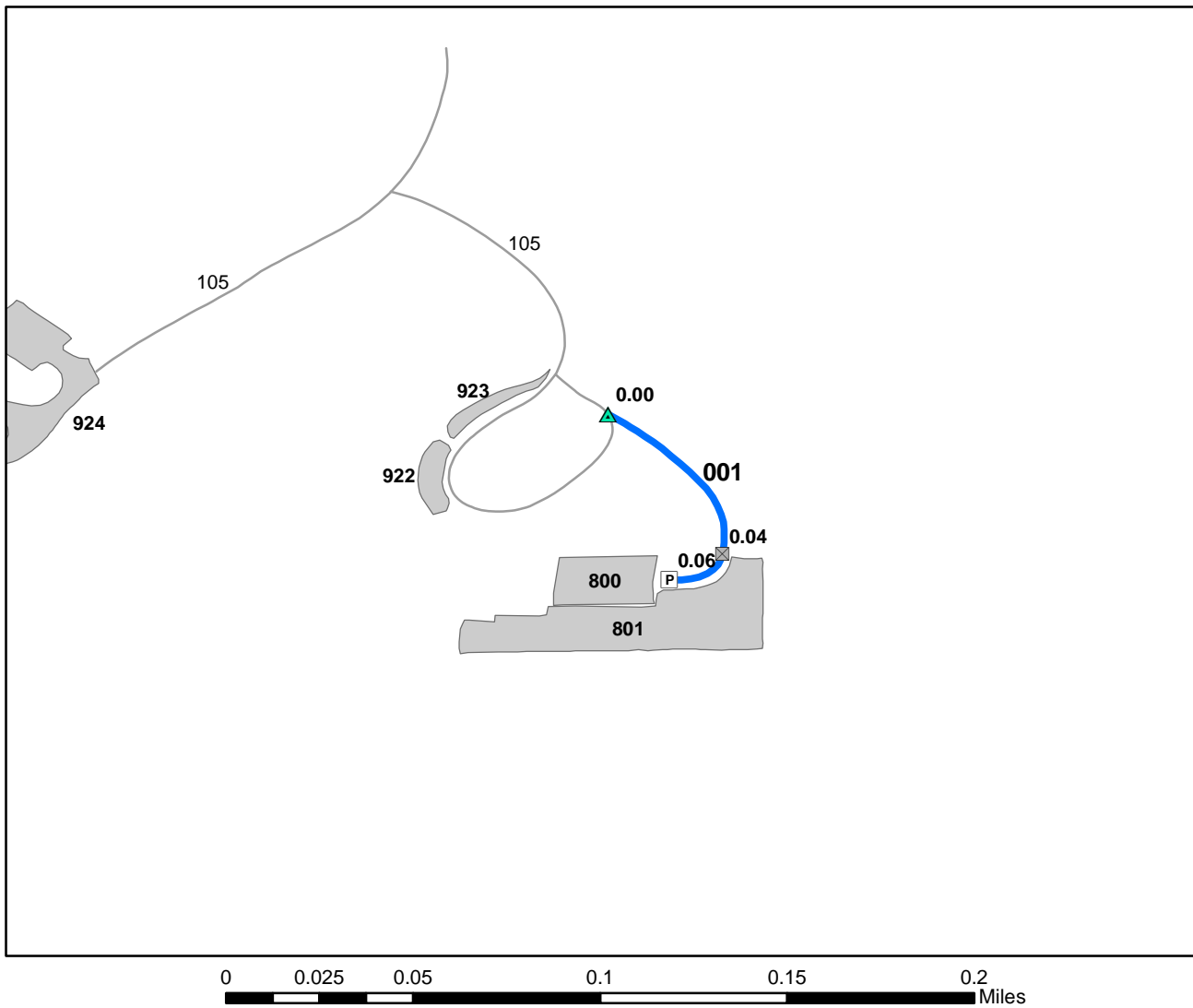


ROUTE: 105 Education Center Entrance Road TOTAL LENGTH: 0.29 Miles

ASSET: 10052696

RTE DESCRIPTION: From Forest Street to Education Center Parking #3 (Route 924)

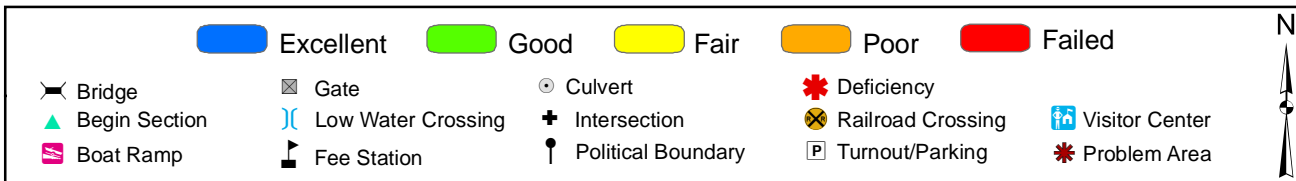
Section Number	001	002			
Section Length (miles)	0.12	0.17			
Inspection Date	4/23/2008	4/23/2008			
Section Information					
Surface Type	Asphalt	Asphalt			
Number of Lanes	2	2			
Roadway Width (feet)	25	25			
Roadway Condition Information					
Condition	Excellent	Excellent			
Remaining Service Life (years)	20	20			
Cost Estimate	\$0	\$0			
CRV	\$135000	\$194400			



ROUTE: 300 Education Center Employee and Fleet Vehicle Parking Access Road TOTAL LENGTH: 0.06 Miles
 ASSET: 10052697

RTE DESCRIPTION: From Education Center Entrance Road (Route 105) to Employee Center Staff Parking #1 (Route 800)

Section Number	001				
Section Length (miles)	0.06				
Inspection Date	4/23/2008				
Section Information					
Surface Type	Asphalt				
Number of Lanes	2				
Roadway Width (feet)	25				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	20				
Cost Estimate	\$0				
CRV	\$69600				

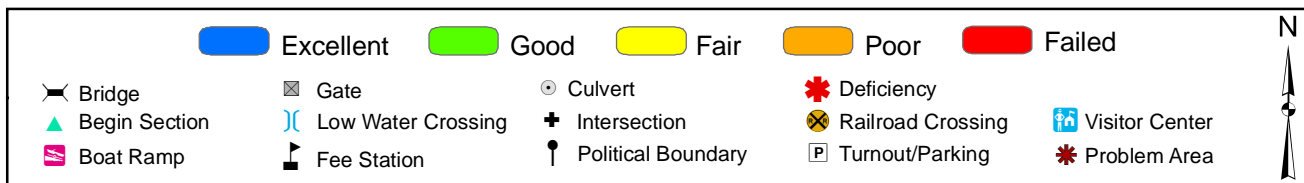
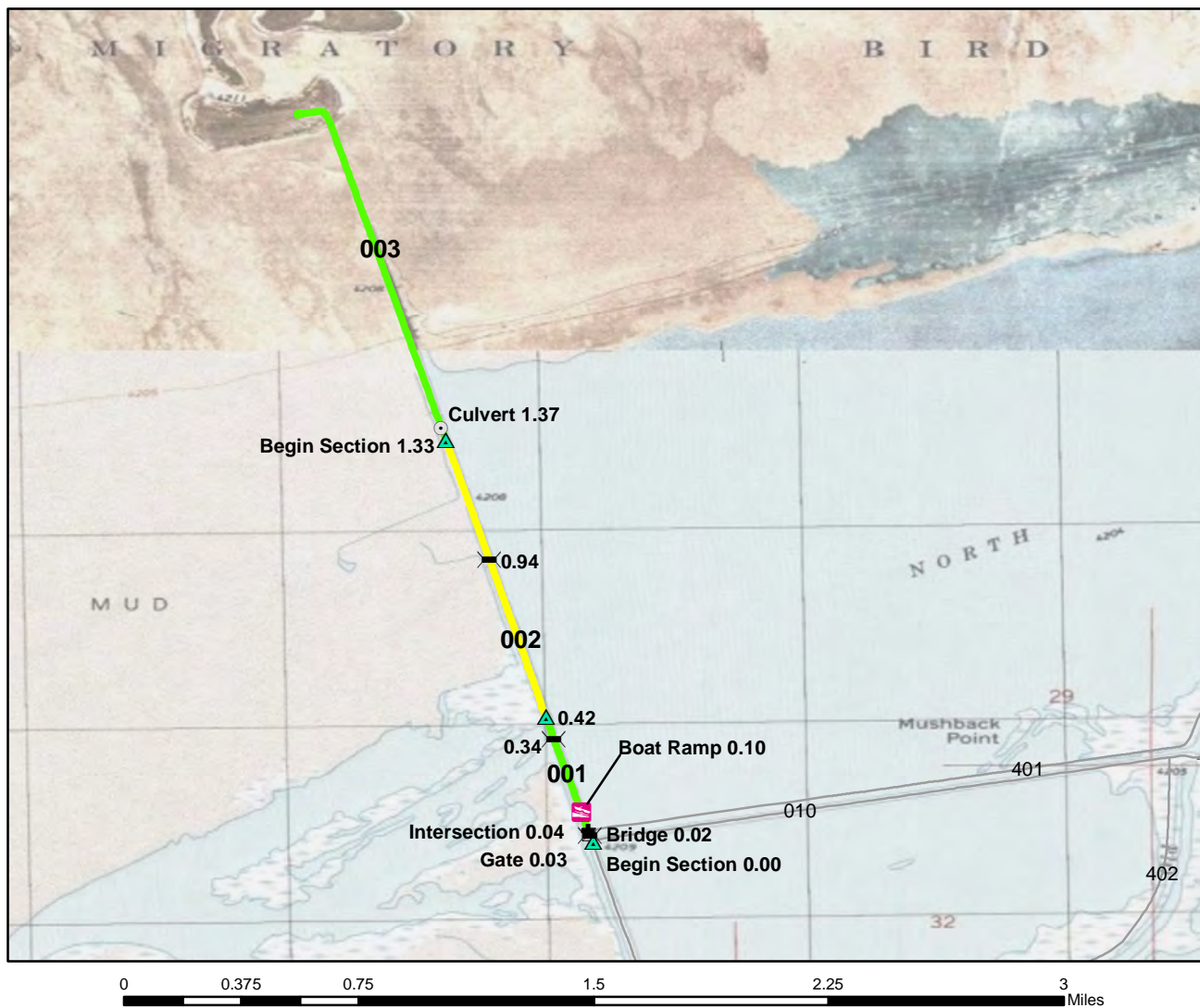


ROUTE: 301 Powerline Road TOTAL LENGTH: 1.02 Miles

ASSET: 10034118

RTE DESCRIPTION: From frontage road to end of route

Section Number	001				
Section Length (miles)	1.02				
Inspection Date	4/23/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$1600				
CRV	\$680900				



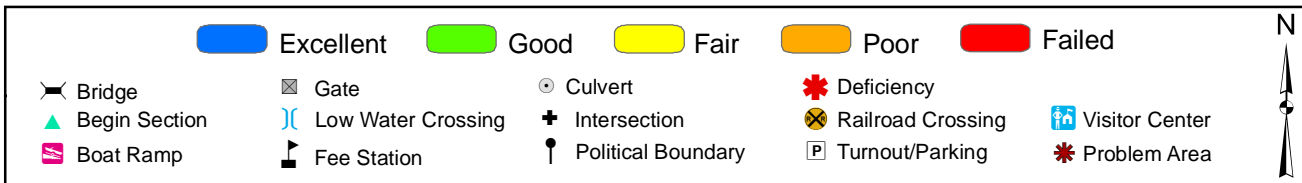
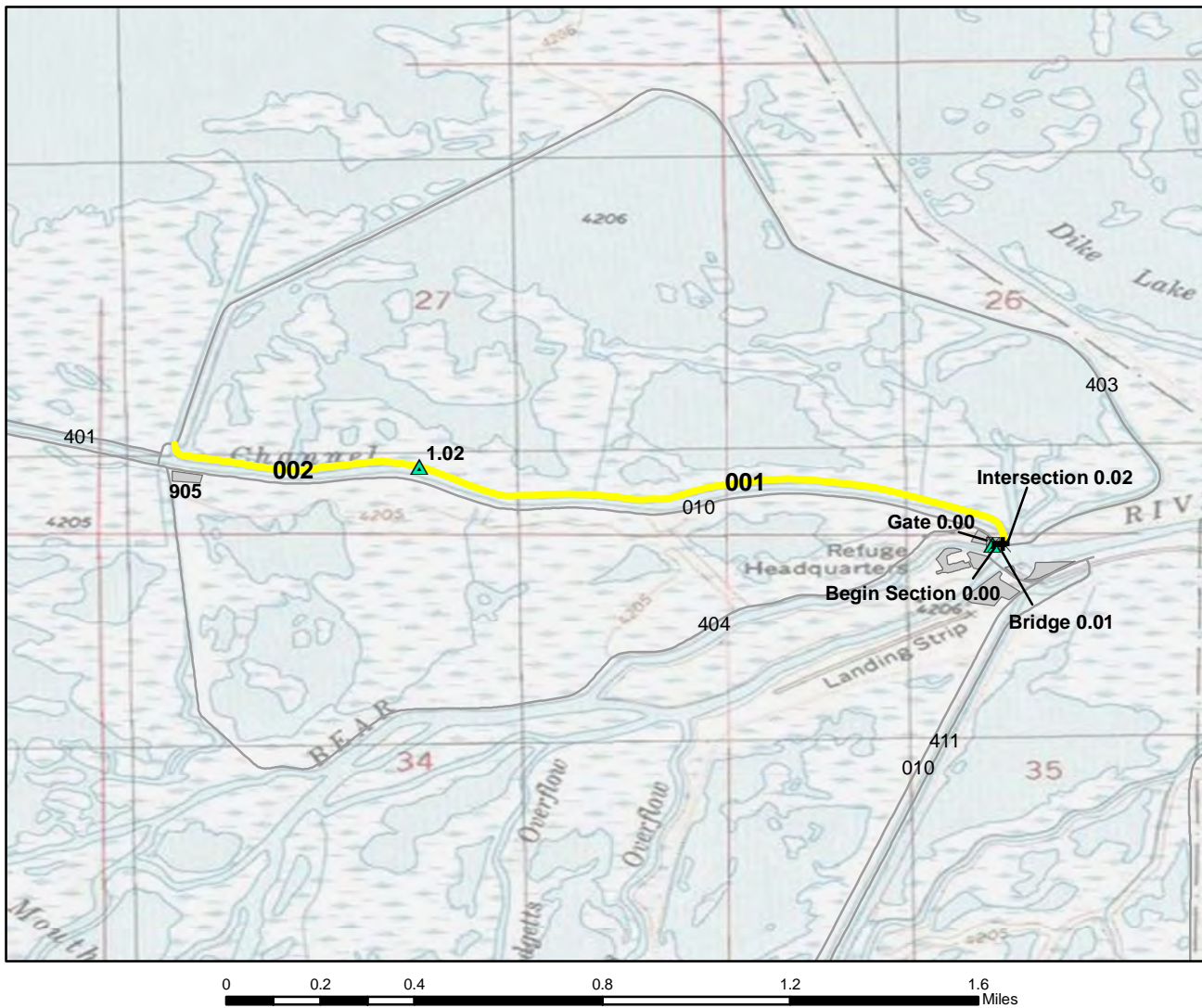
ROUTE: 302 Boneyard Access Road

TOTAL LENGTH: 2.49 Miles

ASSET: 10034024

RTE DESCRIPTION: From Auto Tour Loop Road (Route 010) to boneyard

Section Number	001	002	003		
Section Length (miles)	0.41	0.92	1.16		
Inspection Date	4/24/2008	4/24/2008	4/24/2008		
Section Information					
Surface Type	Gravel	Native	Native		
Number of Lanes	1	1	1		
Roadway Width (feet)	8	8	8		
Roadway Condition Information					
Condition	Good	Fair	Good		
Remaining Service Life (years)	5	4	7		
Cost Estimate	\$600	\$1900	\$1900		
CRV	\$275400	\$315900	\$397800		



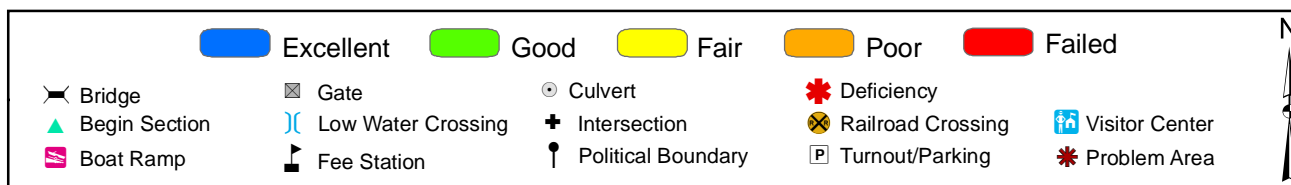
ROUTE: 400 North L-Line Dike Road

TOTAL LENGTH: 1.43 Miles

ASSET: 10034149

RTE DESCRIPTION: From Auto Tour Loop Road (Route 010) to Dike 1A Road (Route 403)

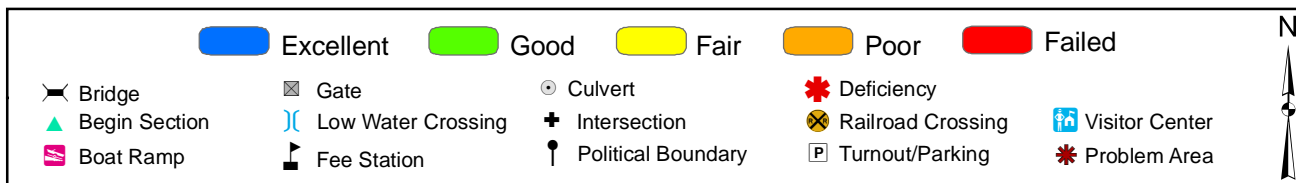
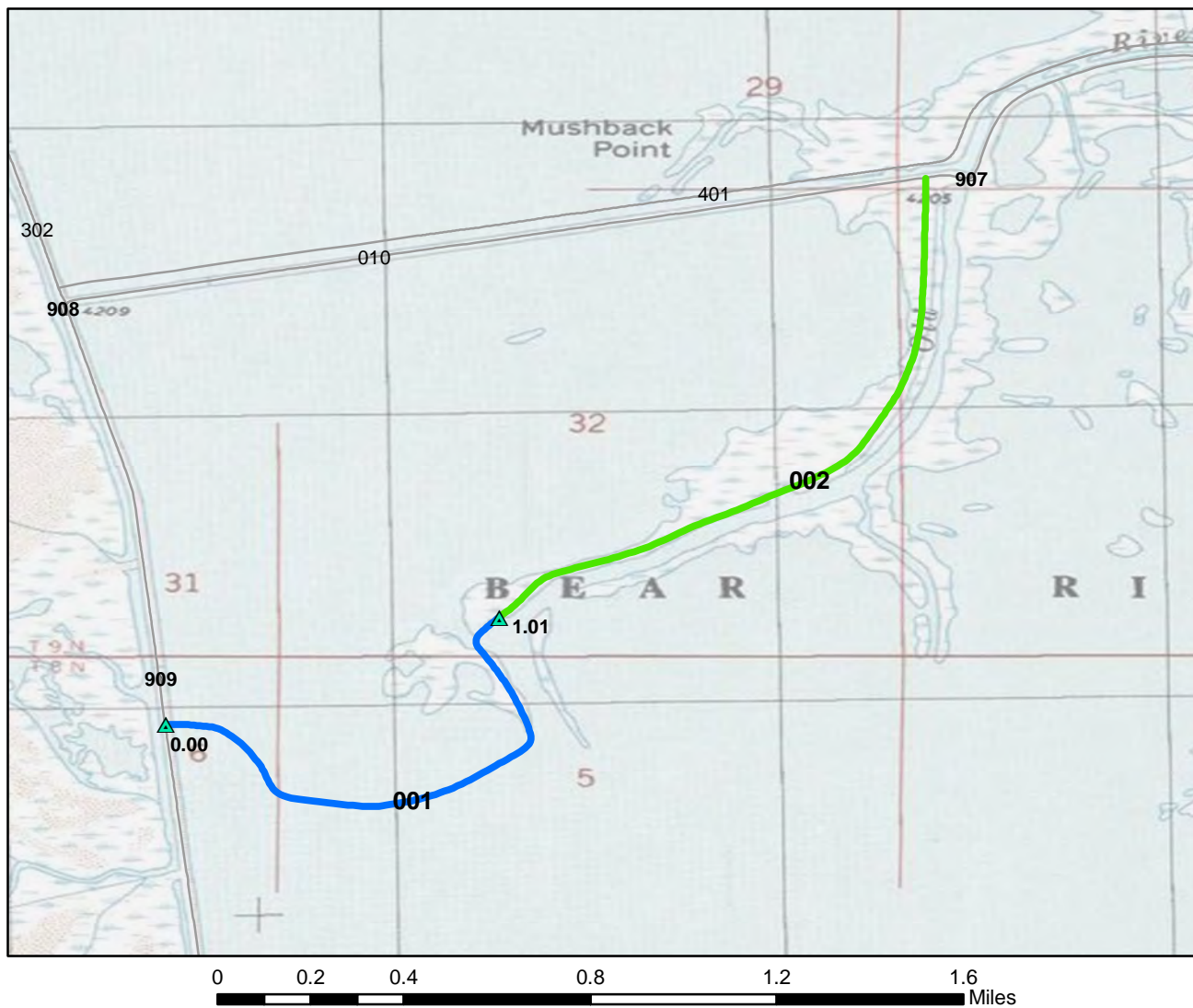
Section Number	001	002			
Section Length (miles)	1.02	0.41			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	8	8			
Roadway Condition Information					
Condition	Fair	Fair			
Remaining Service Life (years)	3	3			
Cost Estimate	\$2100	\$900			
CRV	\$351900	\$141600			



TOTAL LENGTH: 2.6 Miles

RTE DESCRIPTION: From Dike 1A Road (Route 403) to Boneyard Access Road (Route 303)

Section Number	001	002	003		
Section Length (miles)	1.01	1.00	0.59		
Inspection Date	4/24/2008	4/24/2008	4/24/2008		
Section Information					
Surface Type	Native	Native	Native		
Number of Lanes	1	1	1		
Roadway Width (feet)	12	10	10		
Roadway Condition Information					
Condition	Fair	Good	Good		
Remaining Service Life (years)	3	7	5		
Cost Estimate	\$2100	\$1700	\$1000		
CRV	\$348800	\$342400	\$202300		



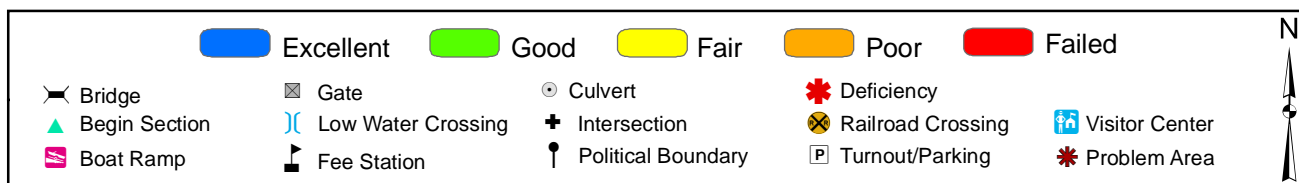
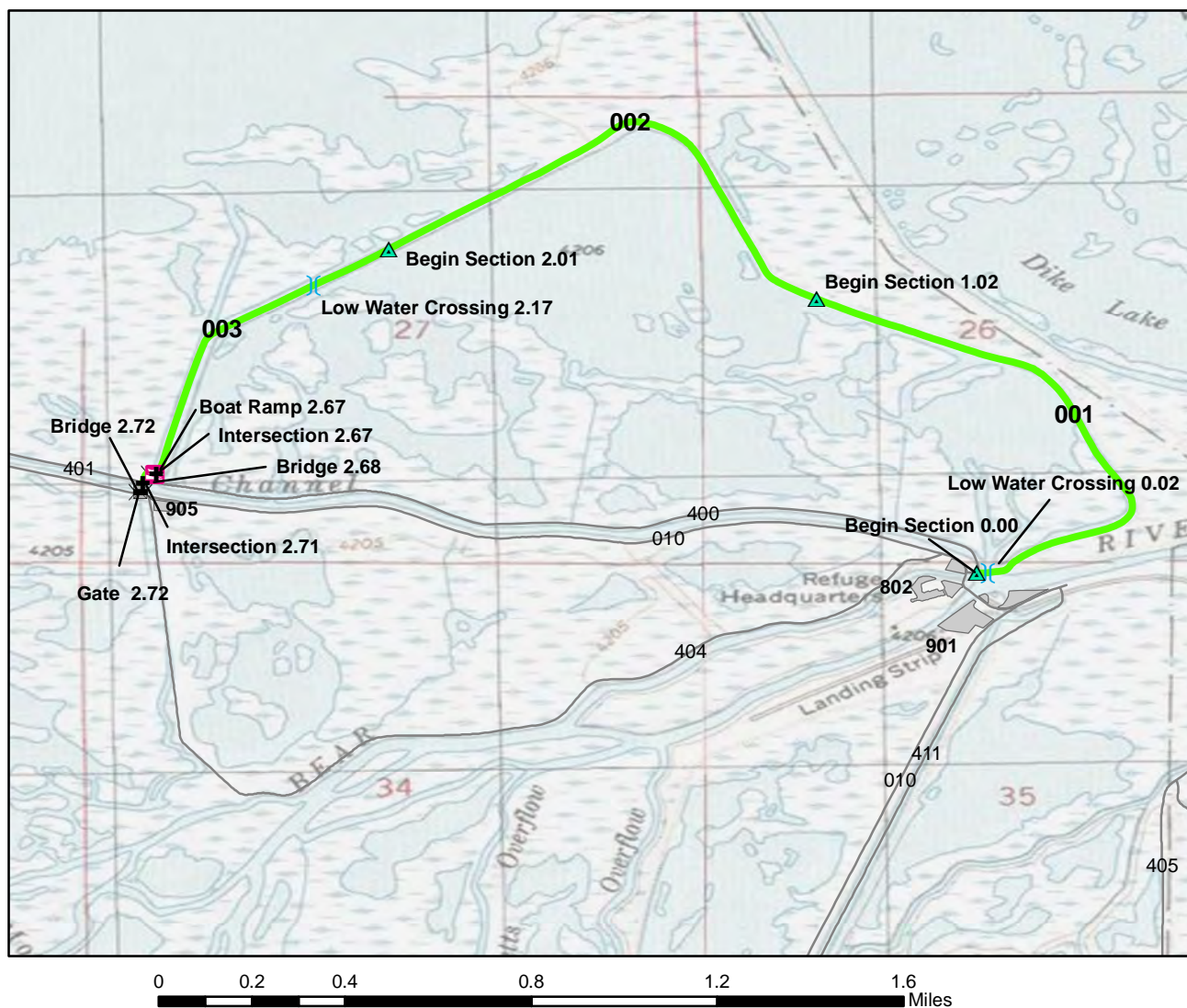
ROUTE: 402 Dike 2C Road

TOTAL LENGTH: 2.3 Miles

ASSET: 10034190

RTE DESCRIPTION: From Auto Tour Loop Road (Route 010) to Auto Tour Loop Road (Route 010)

Section Number	001	002			
Section Length (miles)	1.01	1.29			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Excellent	Good			
Remaining Service Life (years)	9	7			
Cost Estimate	\$0	\$2000			
CRV	\$671000	\$858600			



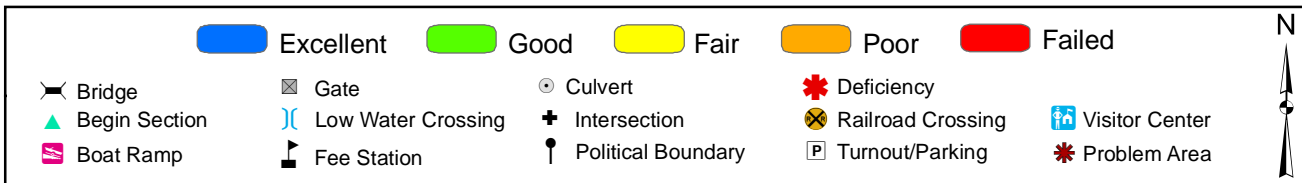
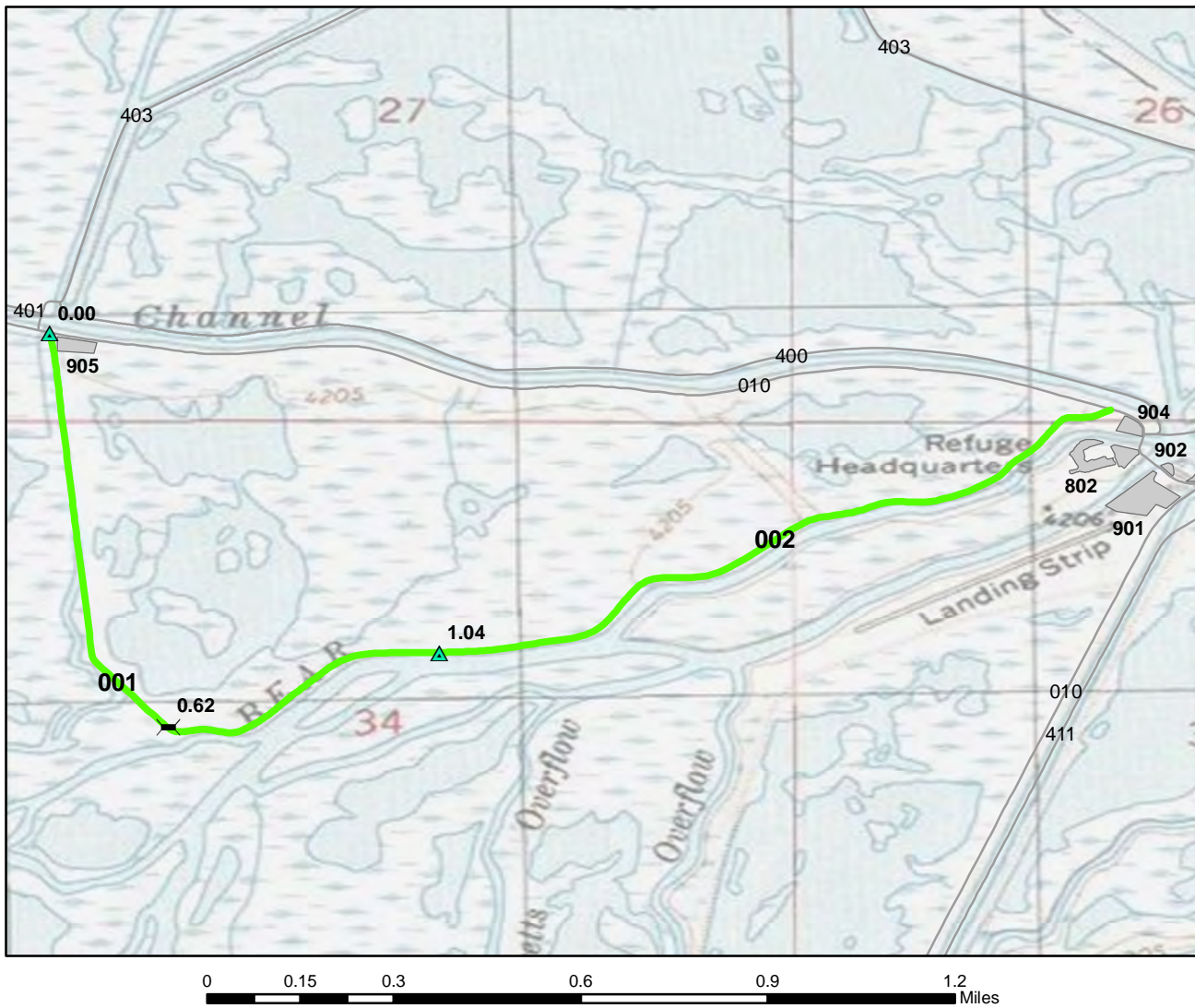
ROUTE: 403 Dike 1A Road

TOTAL LENGTH: 2.72 Miles

ASSET: 10034030

RTE DESCRIPTION: From North L-Line Dike Road (Route 400) to Auto Tour Loop Road (Route 010)

Section Number	001	002	003		
Section Length (miles)	1.02	0.99	0.71		
Inspection Date	4/24/2008	4/24/2008	4/24/2008		
Section Information					
Surface Type	Native	Native	Native		
Number of Lanes	1	1	1		
Roadway Width (feet)	10	10	10		
Roadway Condition Information					
Condition	Good	Good	Good		
Remaining Service Life (years)	5	7	7		
Cost Estimate	\$1700	\$1600	\$1200		
CRV	\$352300	\$339900	\$245400		

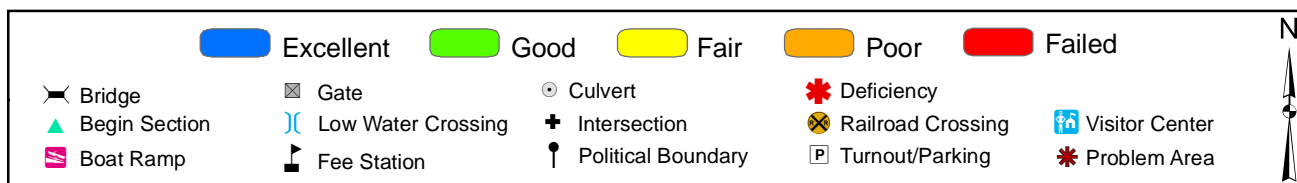


ROUTE: 404 Unit 2B Dike Road TOTAL LENGTH: 1.98 Miles

ASSET: 10034181

RTE DESCRIPTION: From Auto Tour Loop Road (Route 010) to Auto Tour Loop Road (Route 010)

Section Number	001	002			
Section Length (miles)	1.04	0.94			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	7	7			
Cost Estimate	\$1600	\$1500			
CRV	\$693800	\$627700			



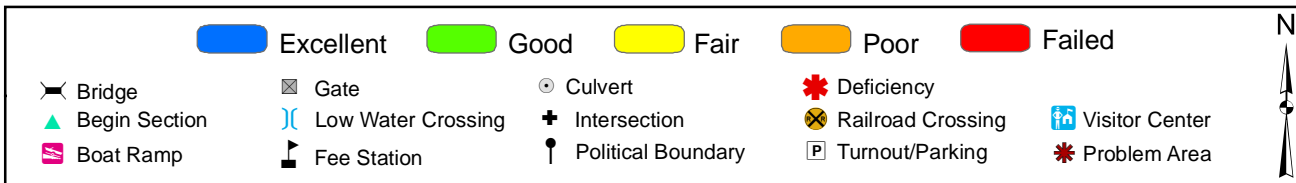
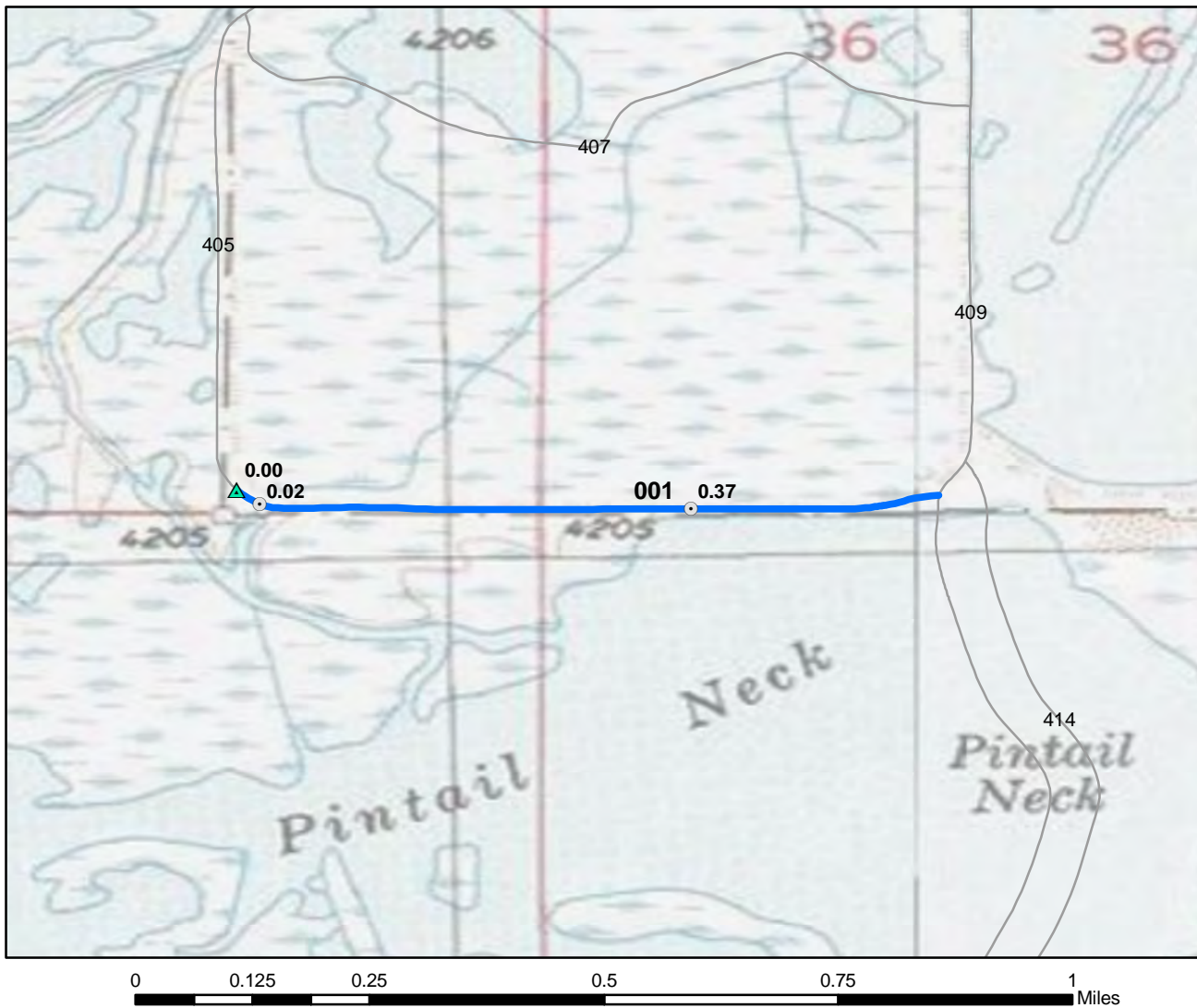
ROUTE: 405 Duckville West Dike Road

TOTAL LENGTH: 0.98 Miles

ASSET: 10034159

RTE DESCRIPTION: From Duckville Parking (Route 915) to Duckville South Dike Road (Route 406)

Section Number	001	002			
Section Length (miles)	0.46	0.52			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	14	14			
Roadway Condition Information					
Condition	Excellent	Excellent			
Remaining Service Life (years)	9	10			
Cost Estimate	\$0	\$0			
CRV	\$307200	\$342700			

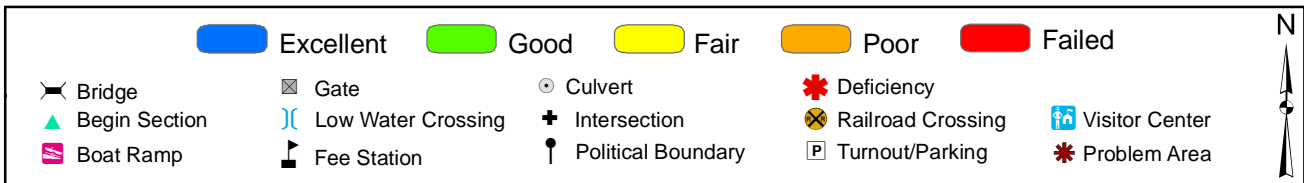


ROUTE: 406 Duckville South Dike Road TOTAL LENGTH: 0.57 Miles

ASSET: 10034158

RTE DESCRIPTION: From Duckville West Dike Road (Route 405) to Duckville East Dike Road (Route 410)

Section Number	001				
Section Length (miles)	0.57				
Inspection Date	4/24/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	9				
Cost Estimate	\$0				
CRV	\$379700				

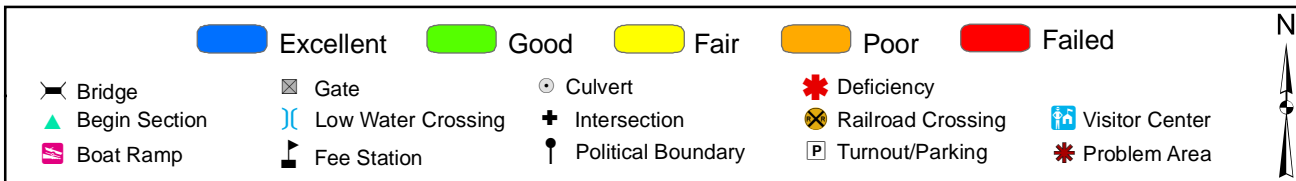
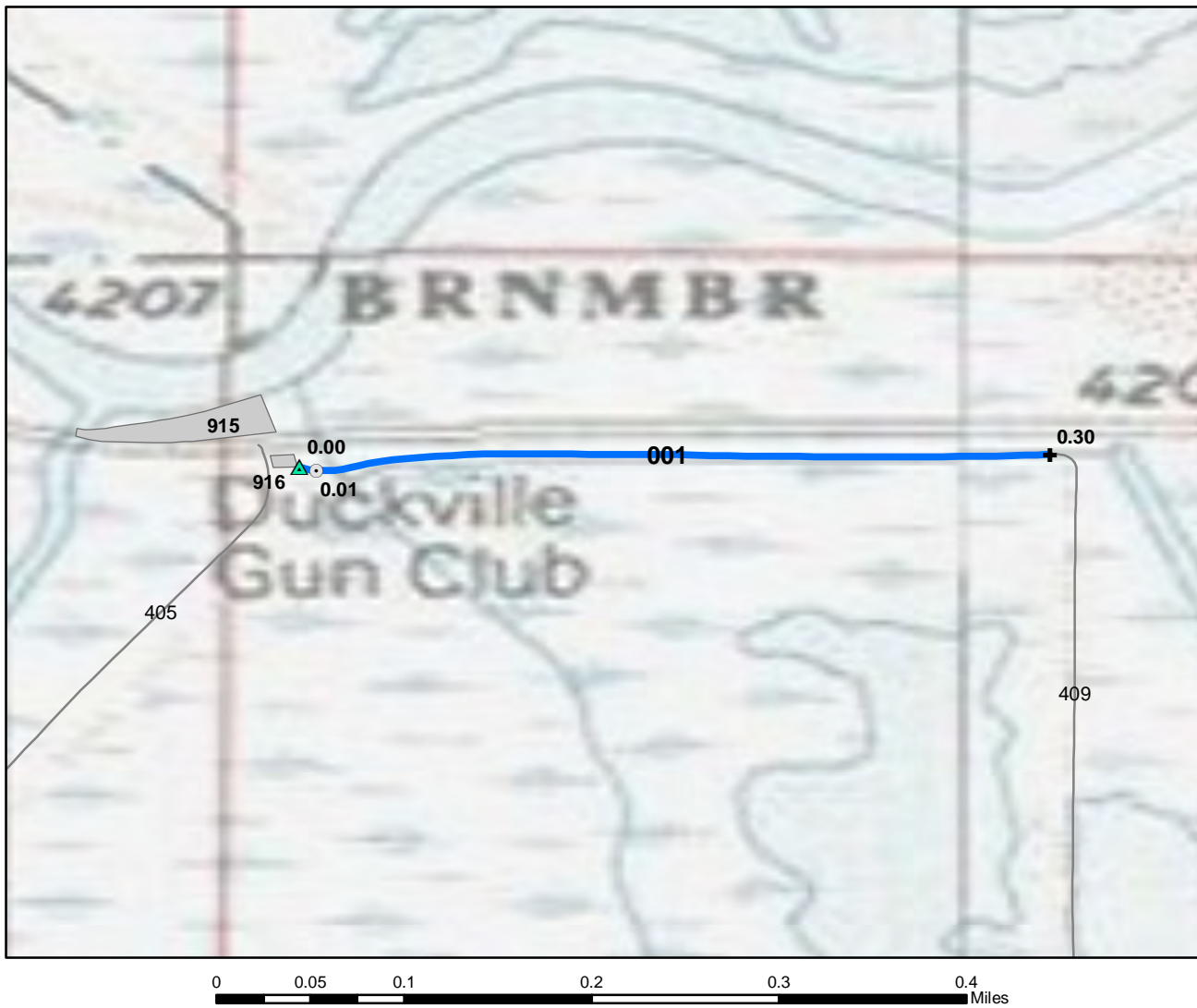


ROUTE: 407 Duckville Center Dike Road TOTAL LENGTH: 0.71 Miles

ASSET: 10034151

RTE DESCRIPTION: From Duckville East Dike Road (Route 410) to Duckville West Dike Road (Route 405)

Section Number	001				
Section Length (miles)	0.71				
Inspection Date	4/24/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$1100				
CRV	\$471700				

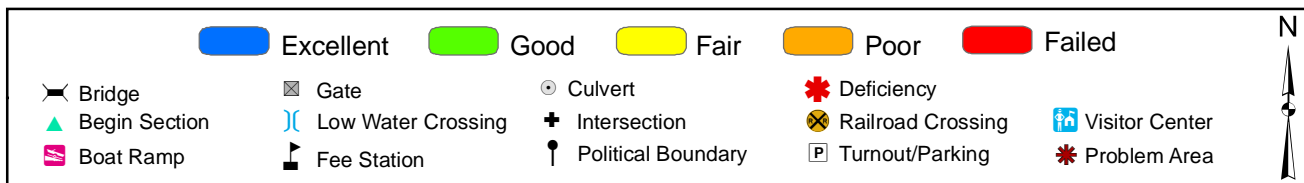
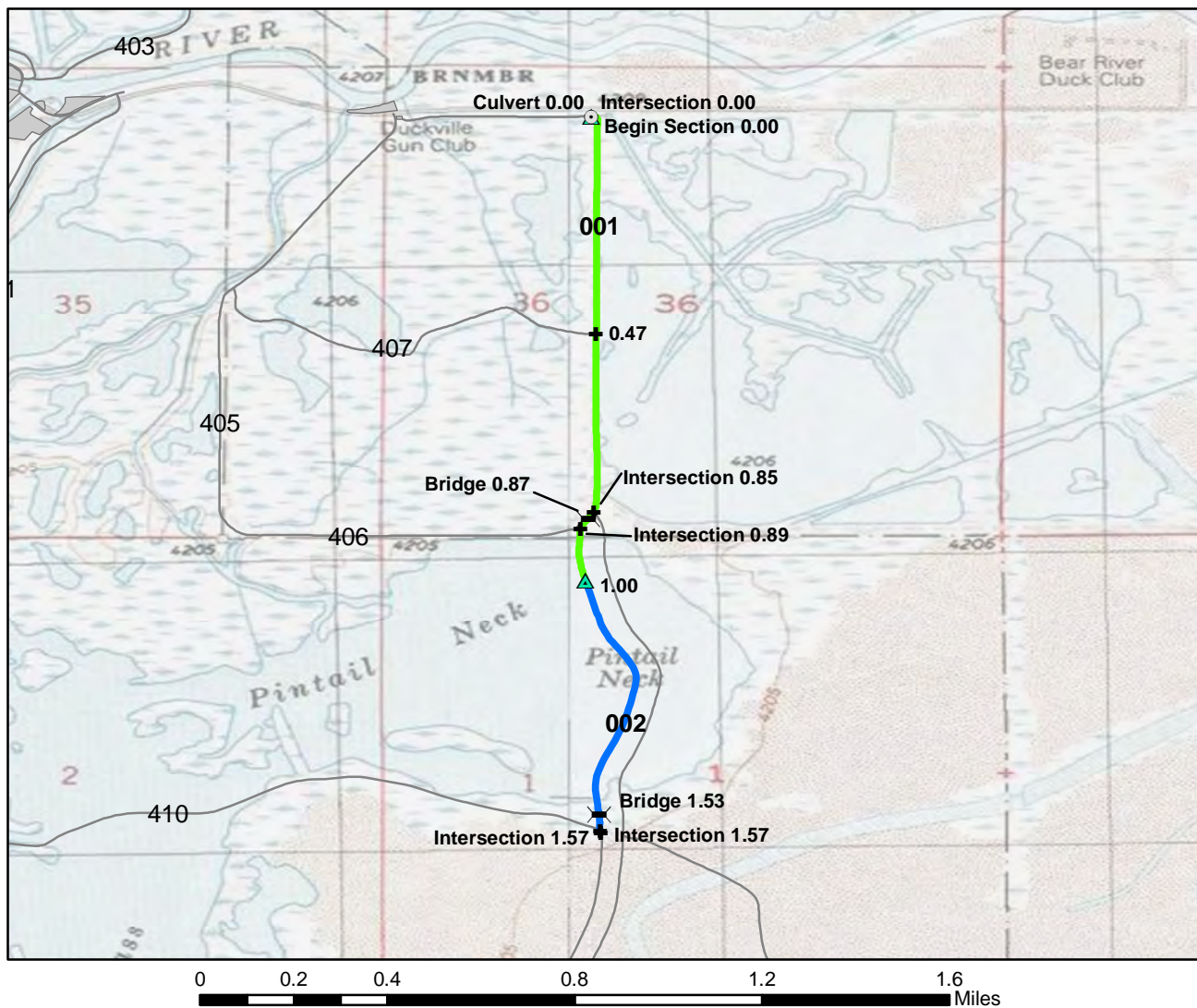


ROUTE: 408 Duckville North Dike Road TOTAL LENGTH: 0.3 Miles

ASSET: 10034156

RTE DESCRIPTION: From Duckville Boat Ramp Parking (Route 916) to Duckville East Dike Road (Route 410)

Section Number	001				
Section Length (miles)	0.30				
Inspection Date	4/24/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	10				
Cost Estimate	\$0				
CRV	\$200800				

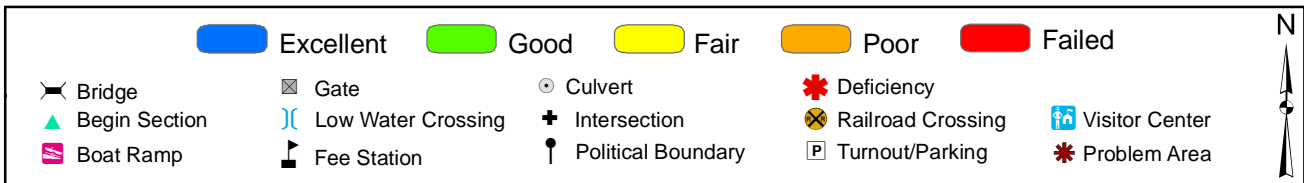
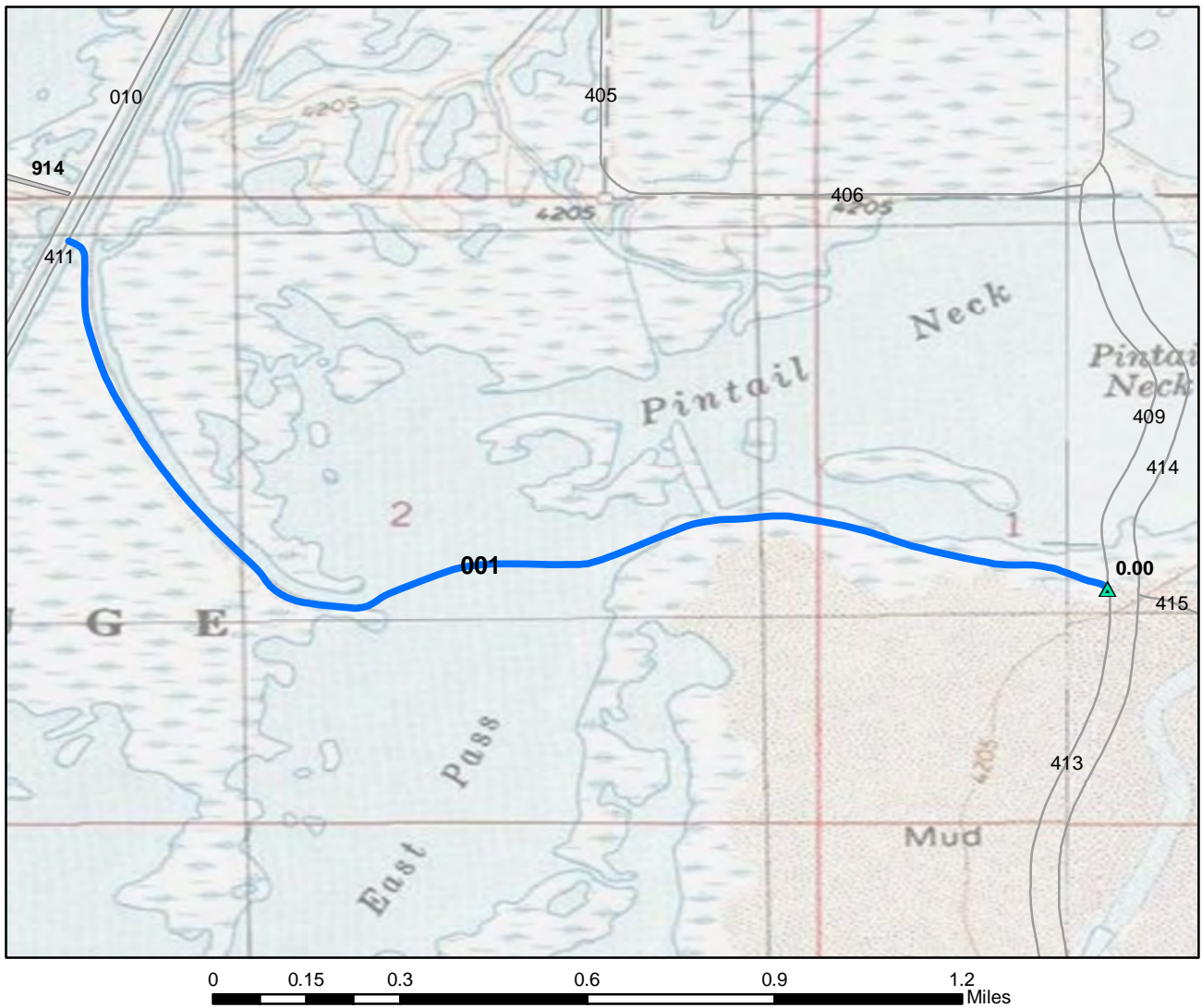


ROUTE: 409 Duckville East Dike Road TOTAL LENGTH: 1.57 Miles

ASSET: 10034157

RTE DESCRIPTION: From Duckville North Dike Road (Route 409) to Cottonwood Dike Road (Route 414)

Section Number	001	002			
Section Length (miles)	1.00	0.57			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Roadway Condition Information					
Condition	Good	Excellent			
Remaining Service Life (years)	7	10			
Cost Estimate	\$1600	\$0			
CRV	\$666700	\$378100			



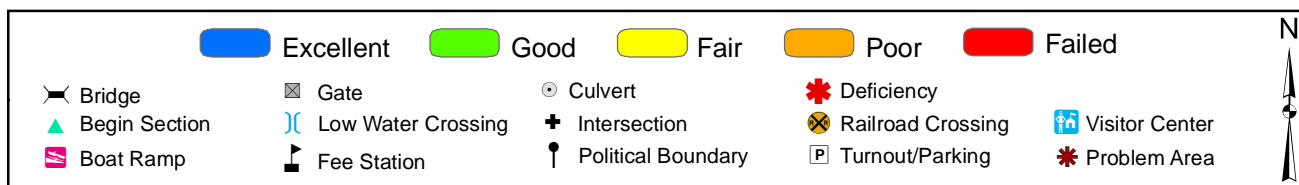
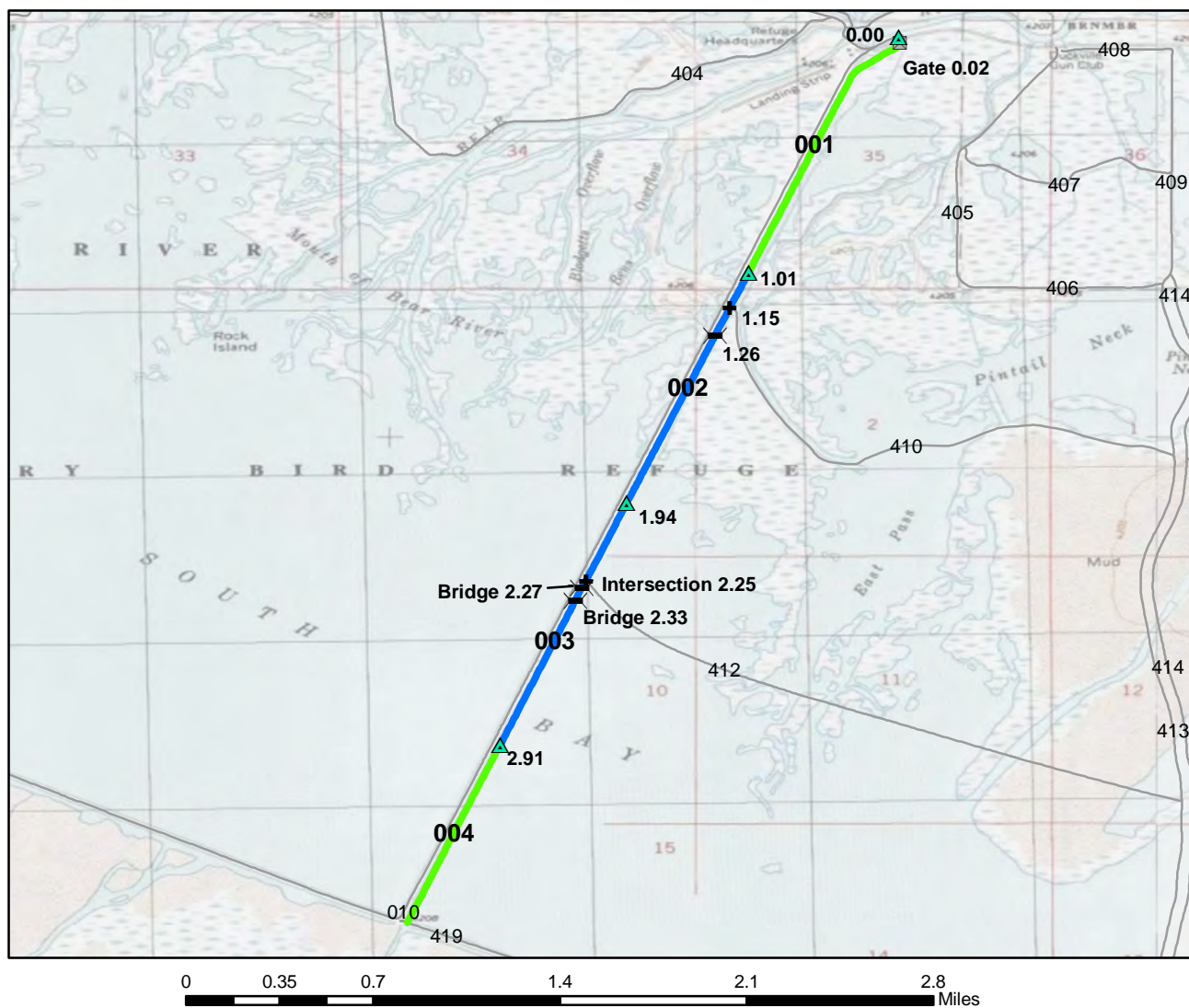
ROUTE: 410 3B North Road

TOTAL LENGTH: 1.69 Miles

ASSET: 10045609

RTE DESCRIPTION: From Duckville East Dike Road (Route 410) to H-line East Dike Road (Route 412)

Section Number	001				
Section Length (miles)	1.69				
Inspection Date	4/24/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	10				
Cost Estimate	\$0				
CRV	\$1123100				

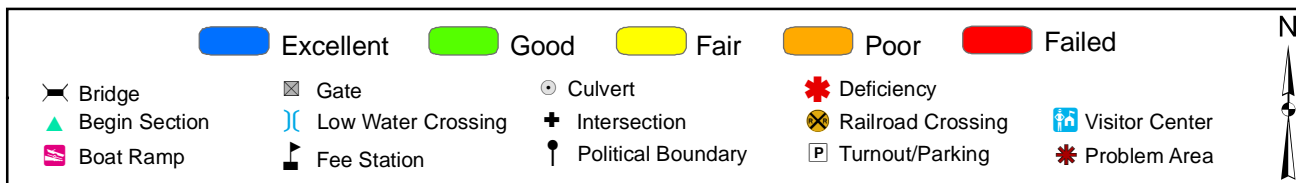
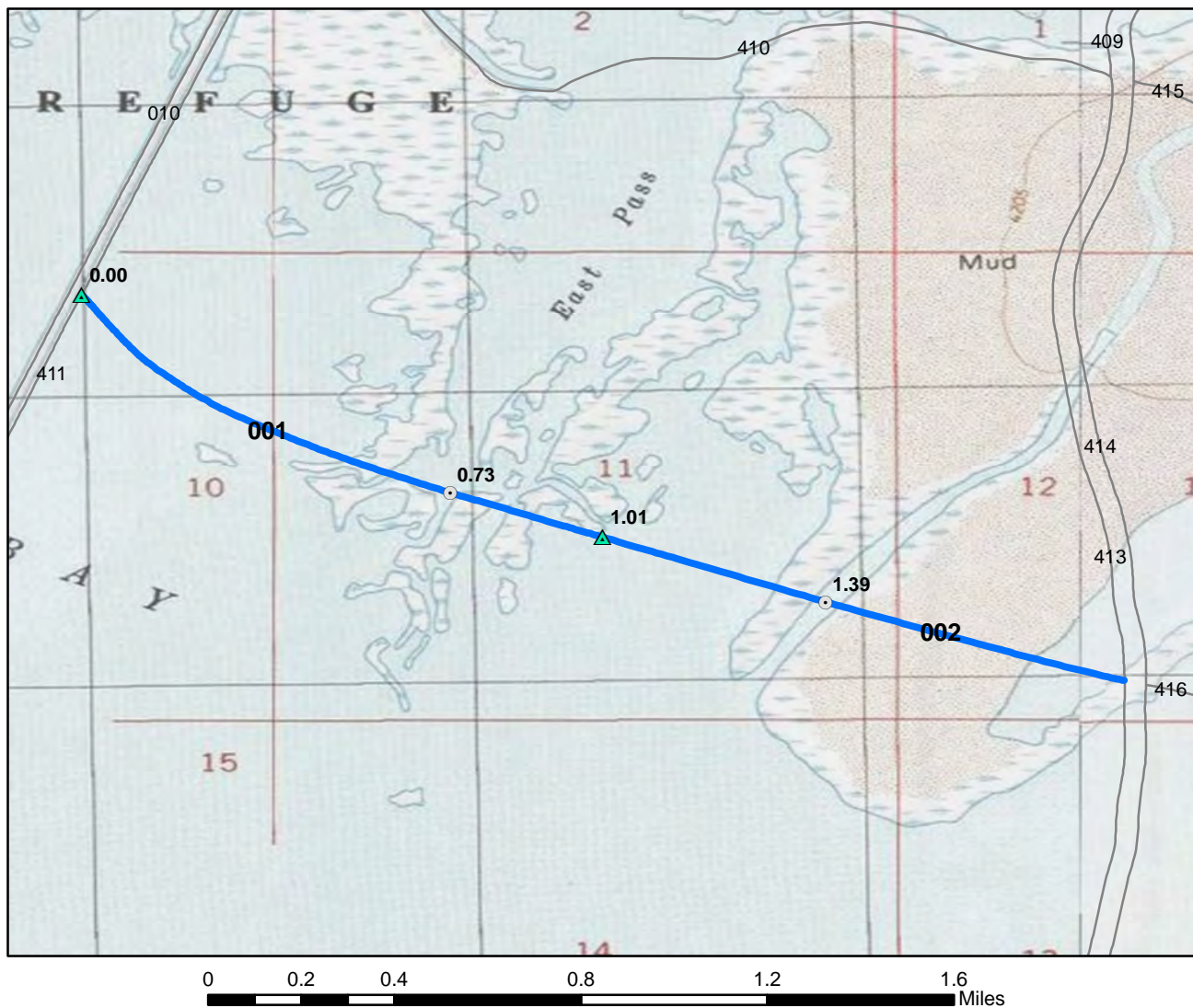


ROUTE: 411 H-Line East Dike Road TOTAL LENGTH: 3.62 Miles

ASSET: 10034147

RTE DESCRIPTION: From Auto Tour Loop Road (Route 010) to D-Line Dike Road (Route 420)

Section Number	001	002	003	004	
Section Length (miles)	1.01	0.93	0.97	0.71	
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	
Number of Lanes	1	1	1	1	
Roadway Width (feet)	12	12	12	12	
Roadway Condition Information					
Condition	Good	Excellent	Excellent	Good	
Remaining Service Life (years)	7	8	9	7	
Cost Estimate	\$1600	\$0	\$0	\$1100	
CRV	\$668300	\$617000	\$646300	\$474900	

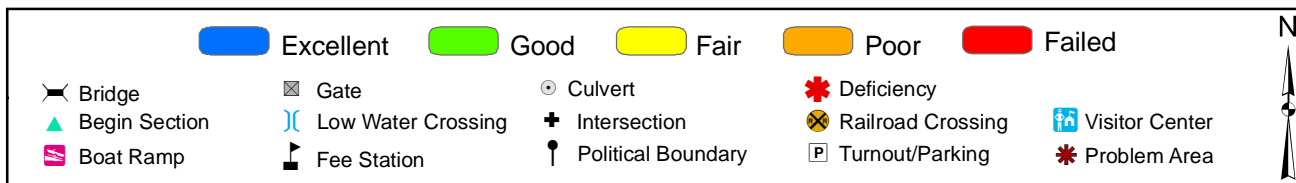
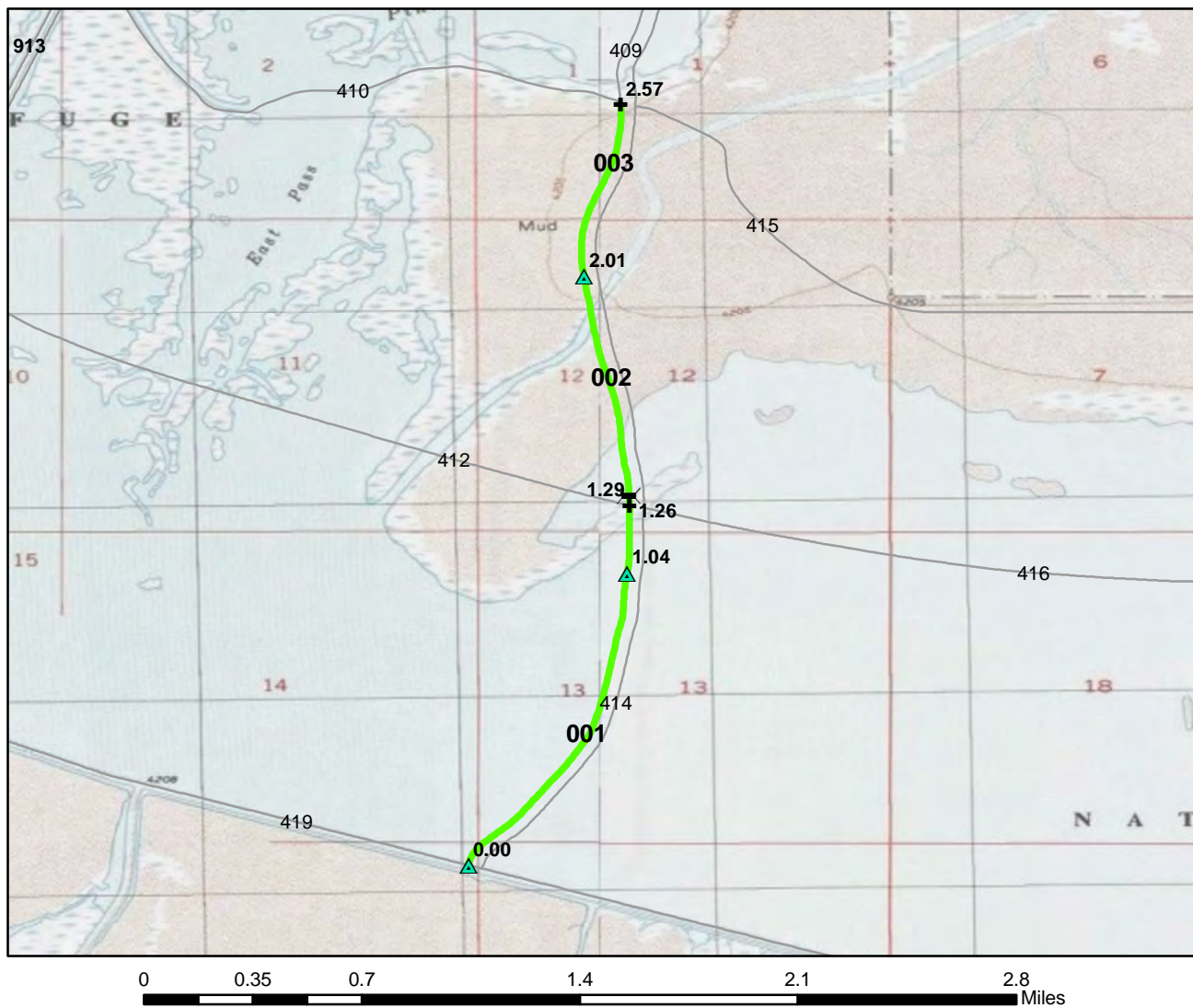


ROUTE: 412 3B South Dike Road TOTAL LENGTH: 1.91 Miles

ASSET: 10034083

RTE DESCRIPTION: From H-Line East Dike Road (Route 412) to Cottonwood Dike Road (Route 414)

Section Number	001	002			
Section Length (miles)	1.01	0.90			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Roadway Condition Information					
Condition	Excellent	Excellent			
Remaining Service Life (years)	8	8			
Cost Estimate	\$0	\$0			
CRV	\$669100	\$594900			

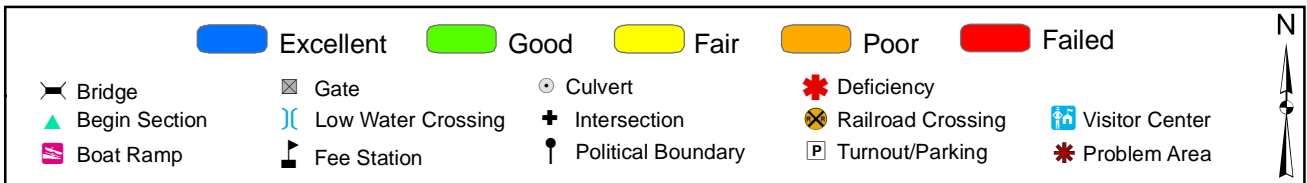
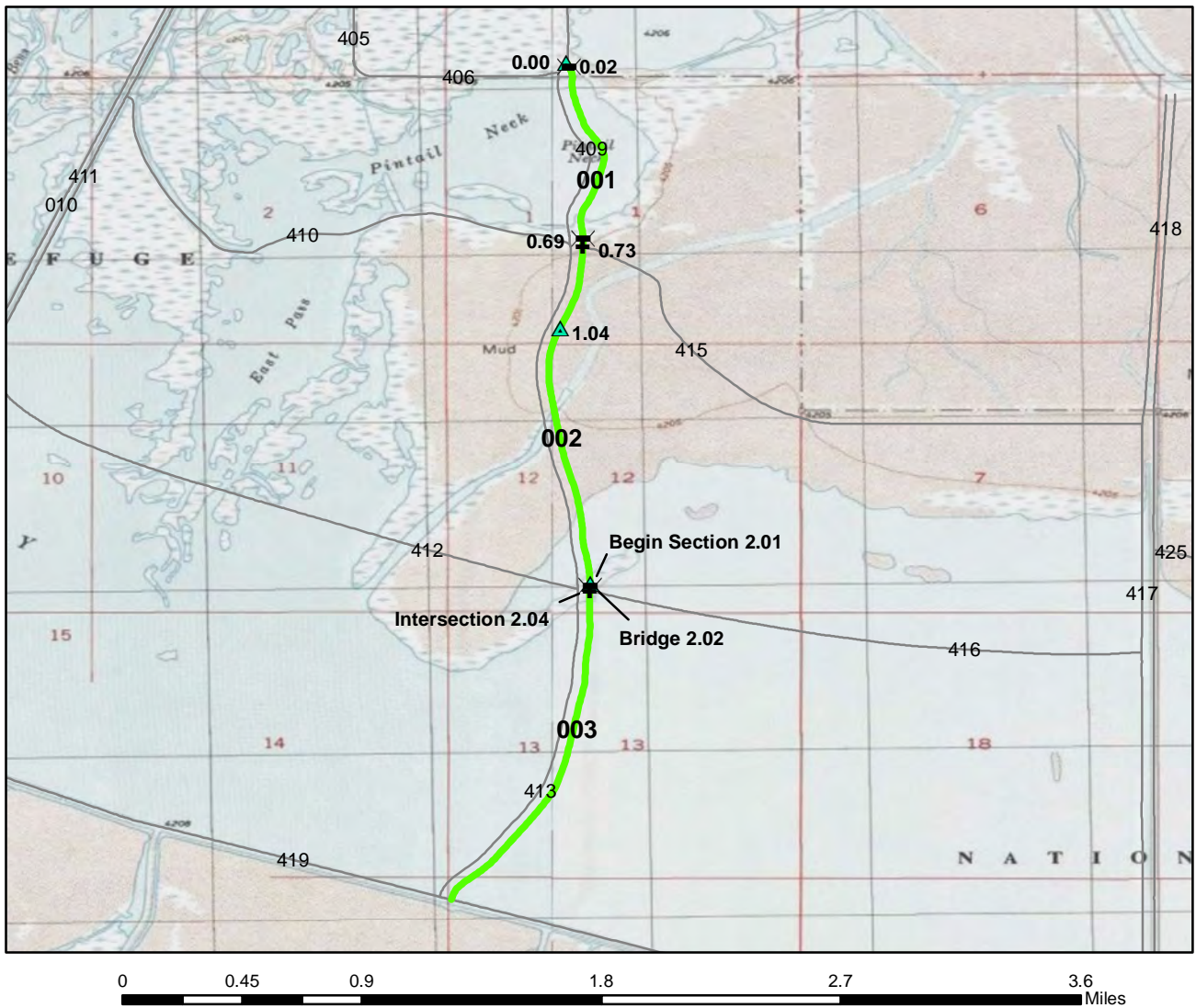


ROUTE: 413 Cottonwood Dike Road TOTAL LENGTH: 2.57 Miles

ASSET: 10034088

RTE DESCRIPTION: From D-Line Dike Road (Route 420) to Duckville East Dike Road (Route 410)

Section Number	001	002	003		
Section Length (miles)	1.04	0.96	0.57		
Inspection Date	4/24/2008	4/24/2008	4/24/2008		
Section Information					
Surface Type	Gravel	Gravel	Gravel		
Number of Lanes	1	1	1		
Roadway Width (feet)	12	12	12		
Roadway Condition Information					
Condition	Good	Good	Good		
Remaining Service Life (years)	5	5	7		
Cost Estimate	\$1600	\$1500	\$900		
CRV	\$693700	\$640200	\$375900		

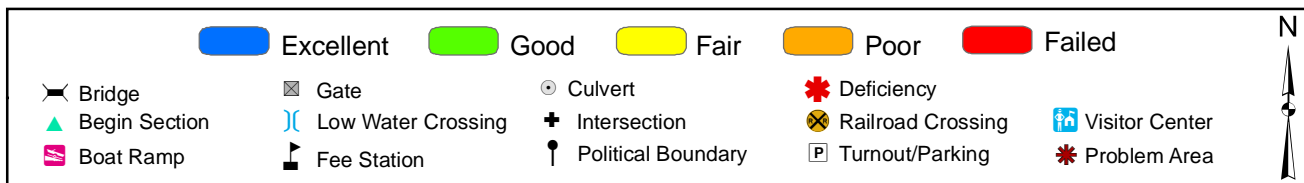
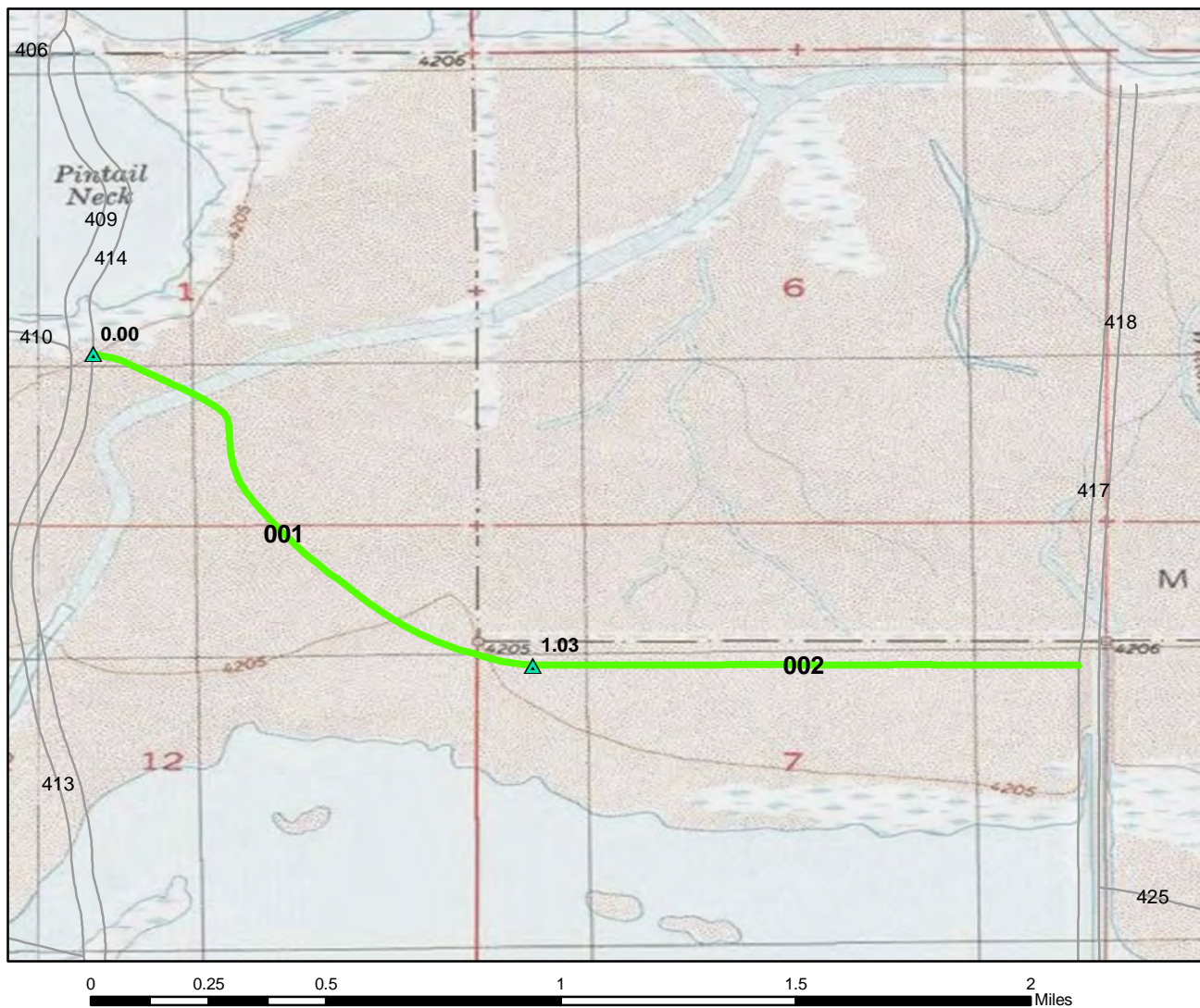


ROUTE: 414 Unit 3 Drain East Dike Road TOTAL LENGTH: 3.30 Miles

ASSET: 10034110

RTE DESCRIPTION: From Duckville East Dike Road (Route 410) to D-Line Dike Road (Route 420)

Section Number	001	002	003		
Section Length (miles)	1.04	0.97	1.29		
Inspection Date	4/24/2008	4/24/2008	4/24/2008		
Section Information					
Surface Type	Gravel	Gravel	Gravel		
Number of Lanes	1	1	1		
Roadway Width (feet)	12	12	12		
Roadway Condition Information					
Condition	Good	Good	Good		
Remaining Service Life (years)	7	7	7		
Cost Estimate	\$1600	\$1500	\$2000		
CRV	\$688800	\$646400	\$858700		

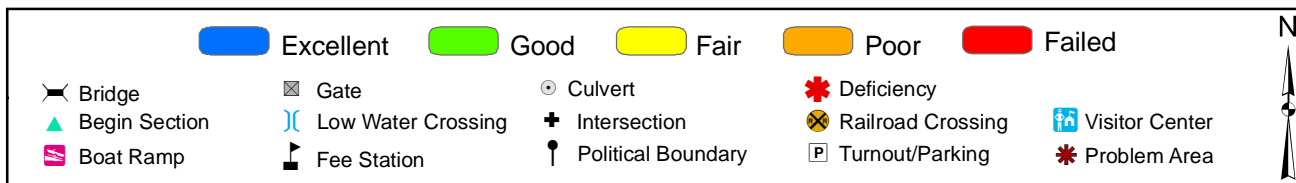
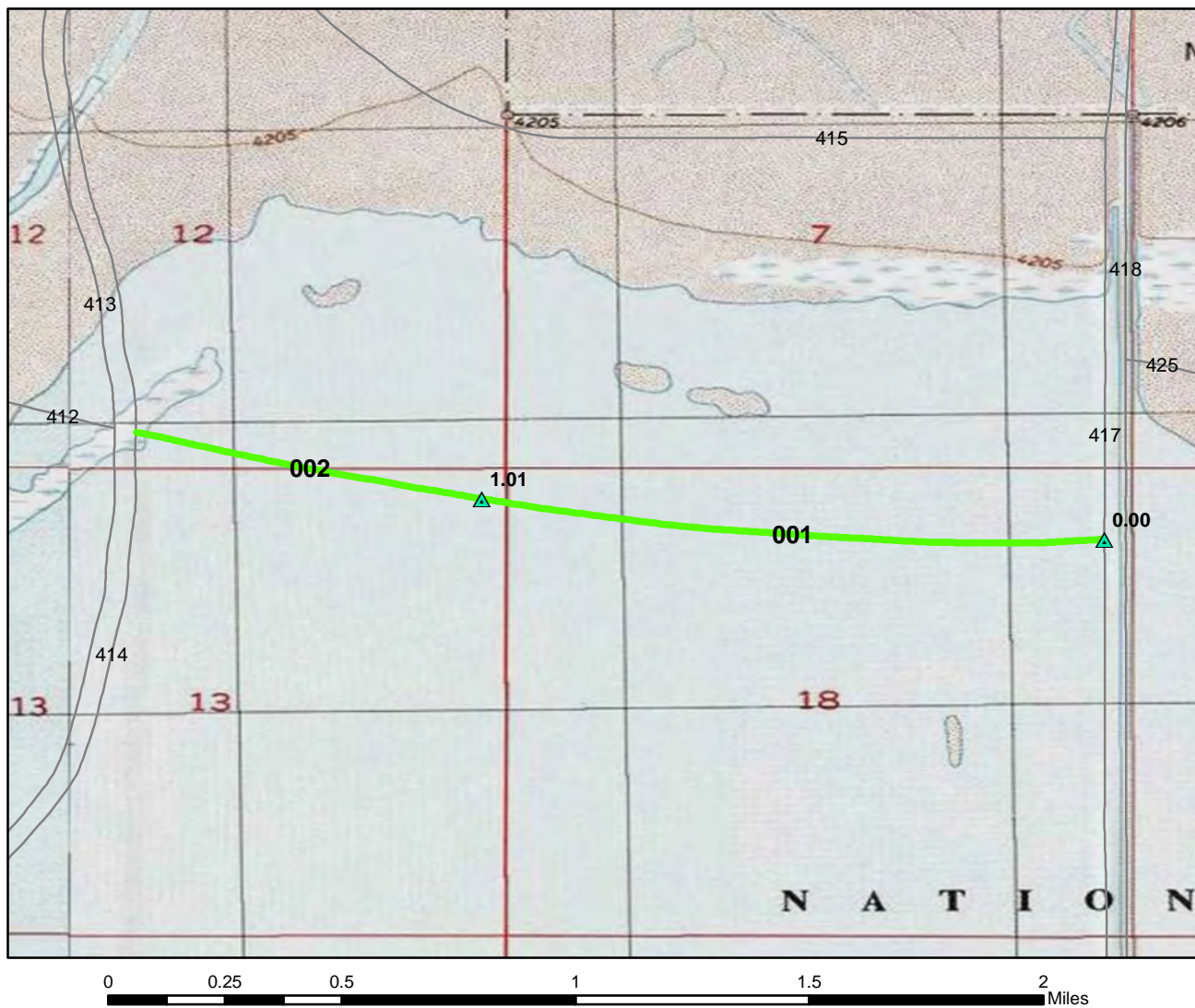


ROUTE: 415 South 3G Dike Road TOTAL LENGTH: 1.9 Miles

ASSET: 10034179

RTE DESCRIPTION: From Unit 3 Drain East Dike Road (Route 415) to West O-Line Dike Road (Route 418)

Section Number	001	002			
Section Length (miles)	1.03	0.87			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	7	7			
Cost Estimate	\$1600	\$1400			
CRV	\$683300	\$580500			



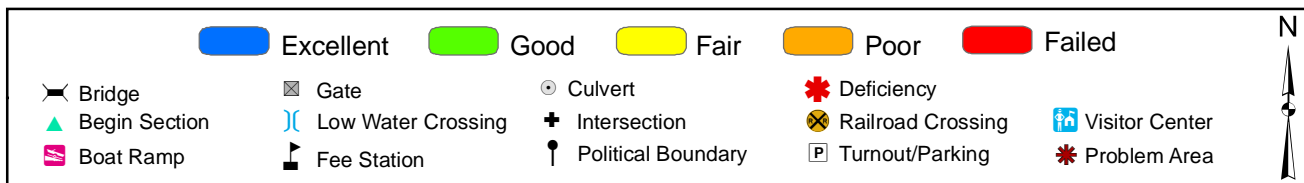
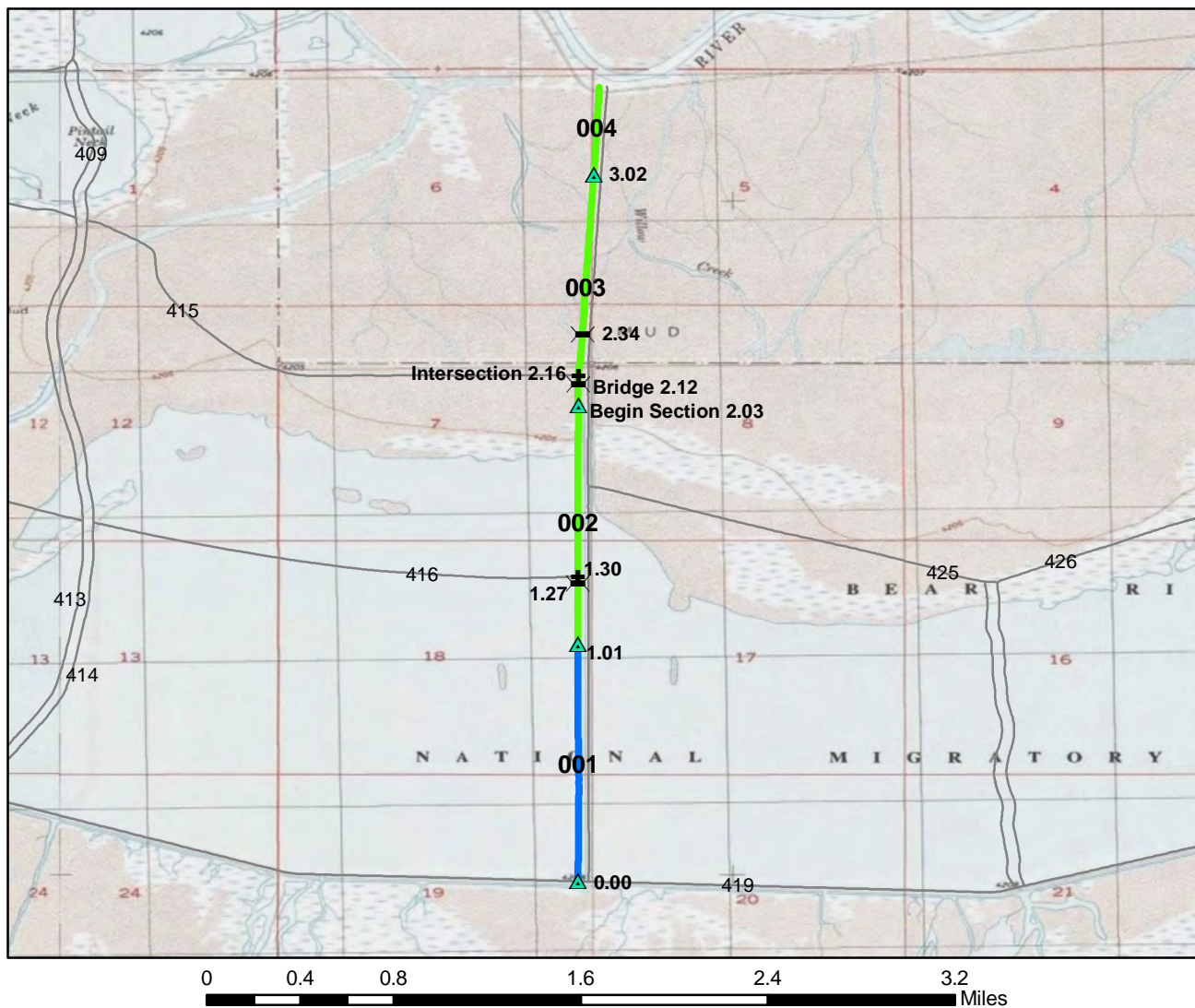
ROUTE: 416 3F South Dike Road

TOTAL LENGTH: 1.58 Miles

ASSET: 10034083

RTE DESCRIPTION: From West O-Line Dike Road (Route 418) to Unit 3 Drain East Dike Road (Route 415)

Section Number	001	002			
Section Length (miles)	1.01	0.57			
Inspection Date	4/24/2008	4/24/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	12	12			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	6	7			
Cost Estimate	\$1600	\$900			
CRV	\$670000	\$381000			



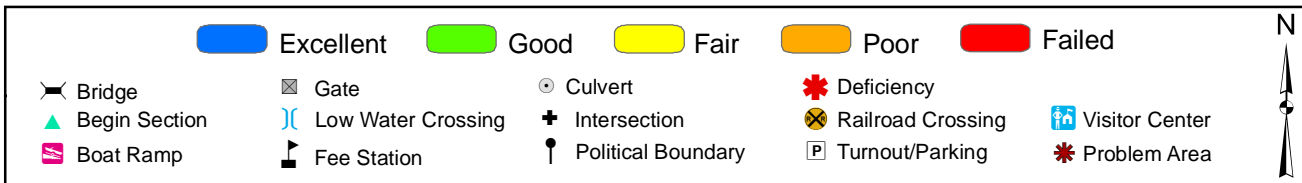
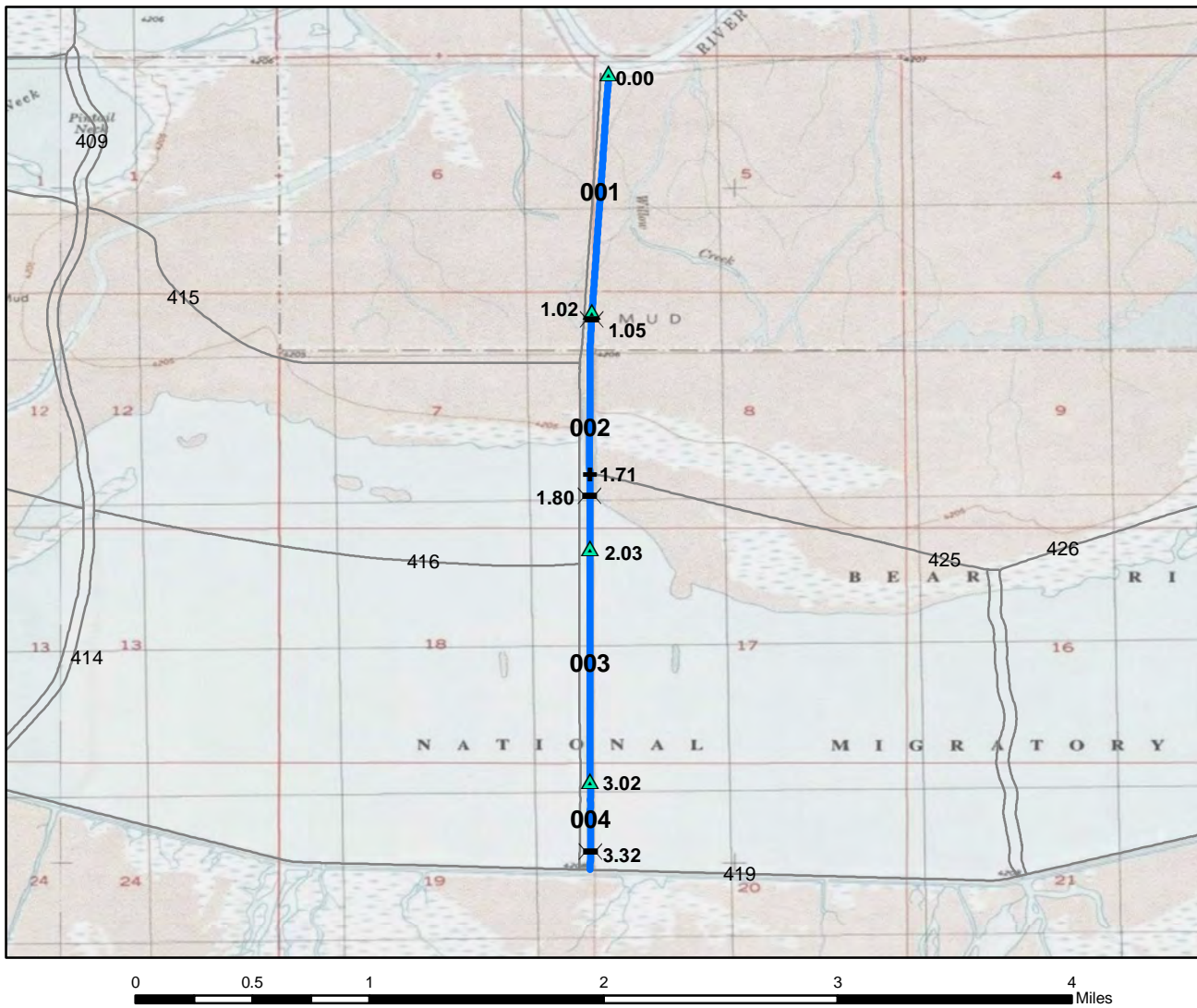
ROUTE: 417 West O-Line Dike Road

TOTAL LENGTH: 3.40 Miles

ASSET: 10034140

RTE DESCRIPTION: From D-Line Dike Road (Route 420) to County Road

Section Number	001	002	003	004	
Section Length (miles)	1.01	1.02	0.99	0.37	
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	
Number of Lanes	1	1	1	1	
Roadway Width (feet)	12	12	12	12	
Roadway Condition Information					
Condition	Excellent	Good	Good	Good	
Remaining Service Life (years)	9	7	7	7	
Cost Estimate	\$0	\$1600	\$1500	\$600	
CRV	\$674200	\$677400	\$657600	\$246400	

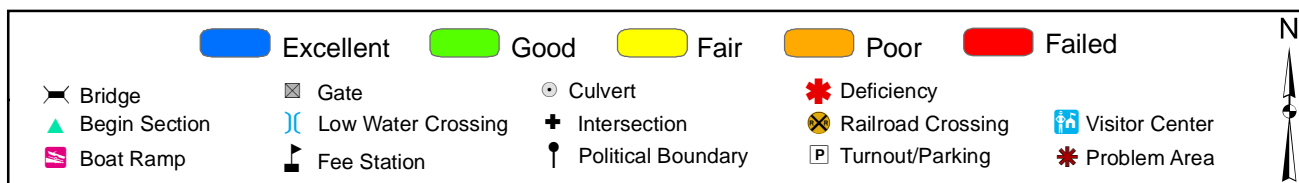
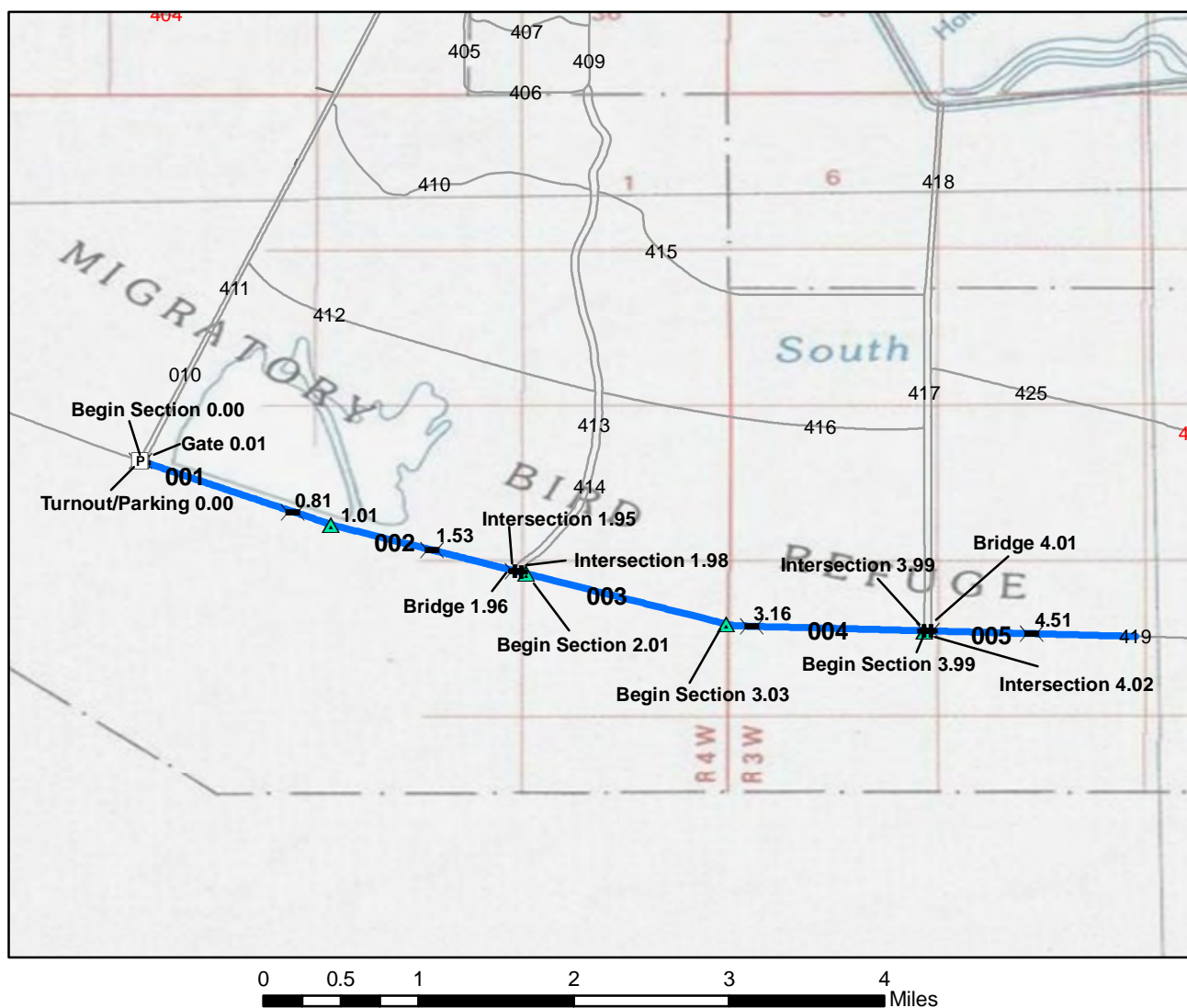


ROUTE: 418 East O-Line Dike Road TOTAL LENGTH: 3.40Miles

ASSET: 10034027

RTE DESCRIPTION: From County Road to D-Line Dike Road (Route 420)

Section Number	001	002	003	004	
Section Length (miles)	1.02	1.01	0.99	0.38	
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	
Number of Lanes	1	1	1	1	
Roadway Width (feet)	12	12	12	12	
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	
Remaining Service Life (years)	9	9	9	9	
Cost Estimate	\$0	\$0	\$0	\$0	
CRV	\$676200	\$669800	\$658200	\$253500	

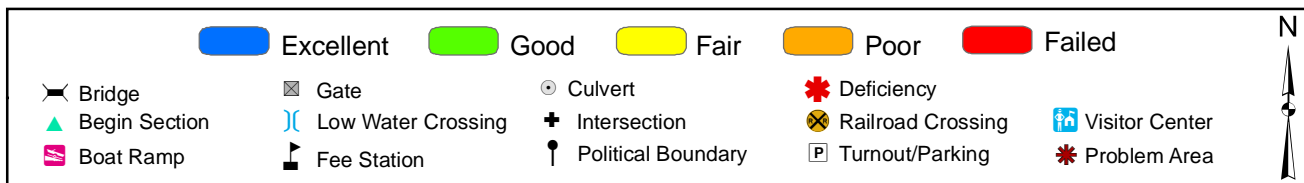
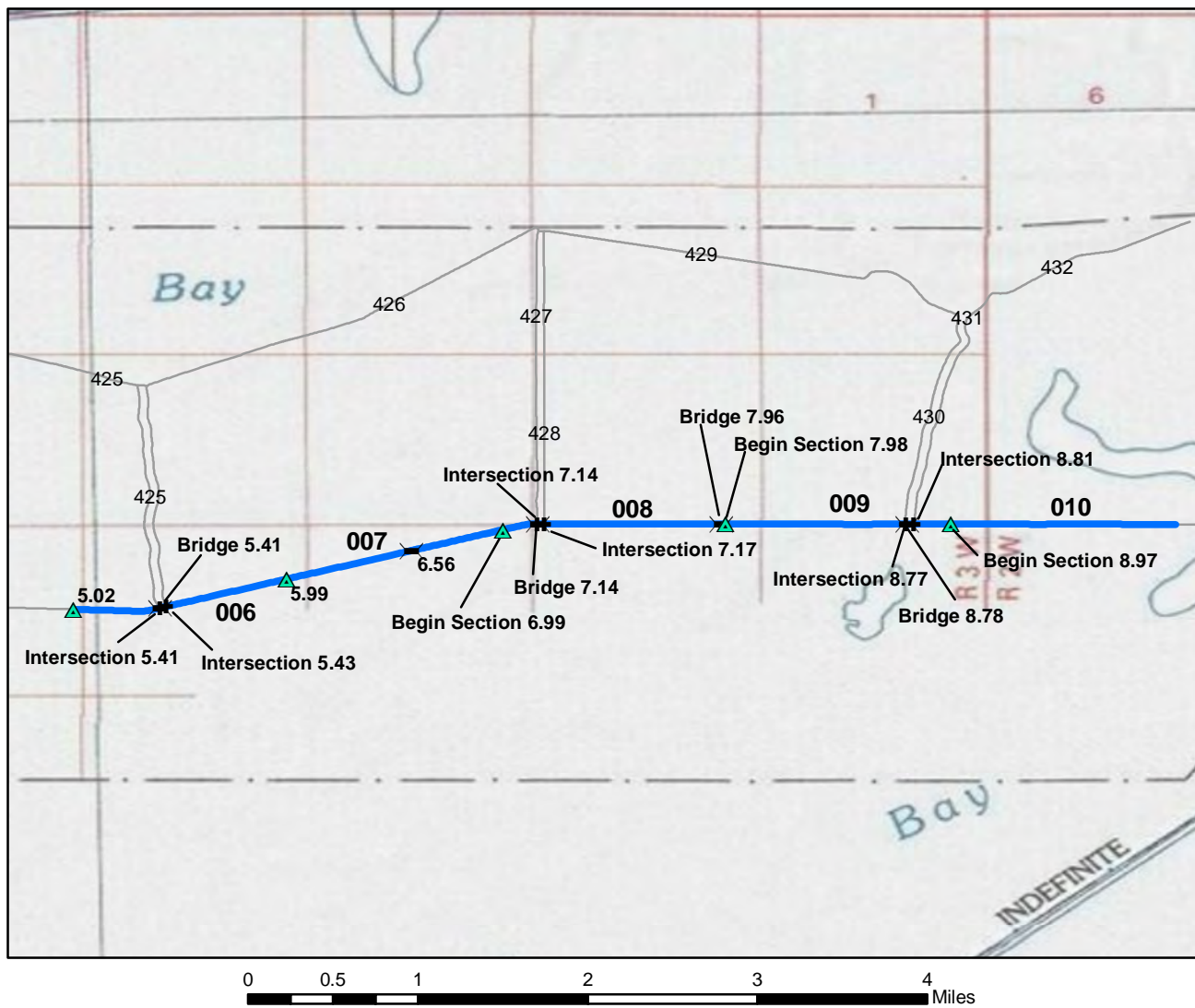


ROUTE: 419 D-Line Dike Road TOTAL LENGTH: 12.47 Miles

ASSET: 10050366

RTE DESCRIPTION: From H-Line Parking #1 (Route 912) to Perry Hunter Parking #2 (Route 920)

Section Number	001	002	003	004	005
Section Length (miles)	1.01	1.00	1.02	0.96	1.02
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	4/24/2008
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Number of Lanes	1	1	1	1	1
Roadway Width (feet)	12	12	12	12	12
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	Excellent
Remaining Service Life (years)	10	10	10	10	10
Cost Estimate	\$0	\$0	\$0	\$0	\$0
CRV	\$671700	\$663400	\$677400	\$639600	\$679900



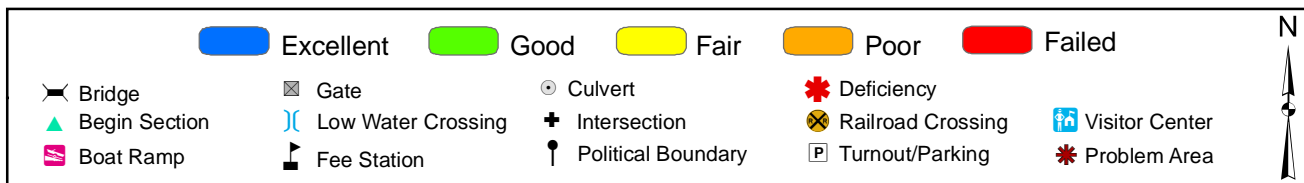
ROUTE: 419 D-Line Dike Road

TOTAL LENGTH: 12.47 Miles

ASSET: 10050366

RTE DESCRIPTION: From H-Line Parking #1 (Route 912) to Perry Hunter Parking #2 (Route 920)

Section Number	006	007	008	009	010
Section Length (miles)	0.97	1.00	0.99	1.00	0.99
Inspection Date	4/24/2008	4/24/2008	4/24/2008	4/24/2008	4/24/2008
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	Gravel
Number of Lanes	1	1	1	1	1
Roadway Width (feet)	12	12	12	12	12
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent	Excellent	Excellent
Remaining Service Life (years)	10	10	9	9	9
Cost Estimate	\$0	\$0	\$0	\$0	\$0
CRV	\$645300	\$664400	\$657200	\$662400	\$659900

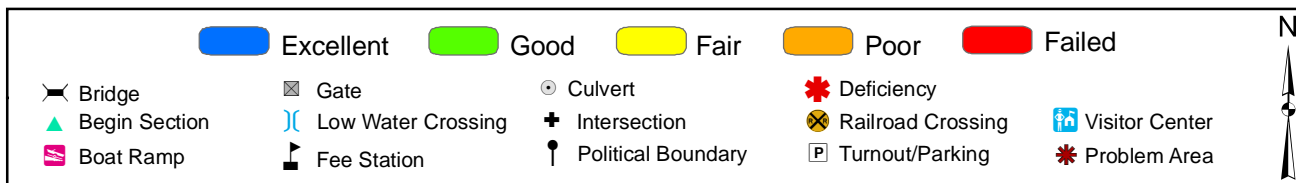
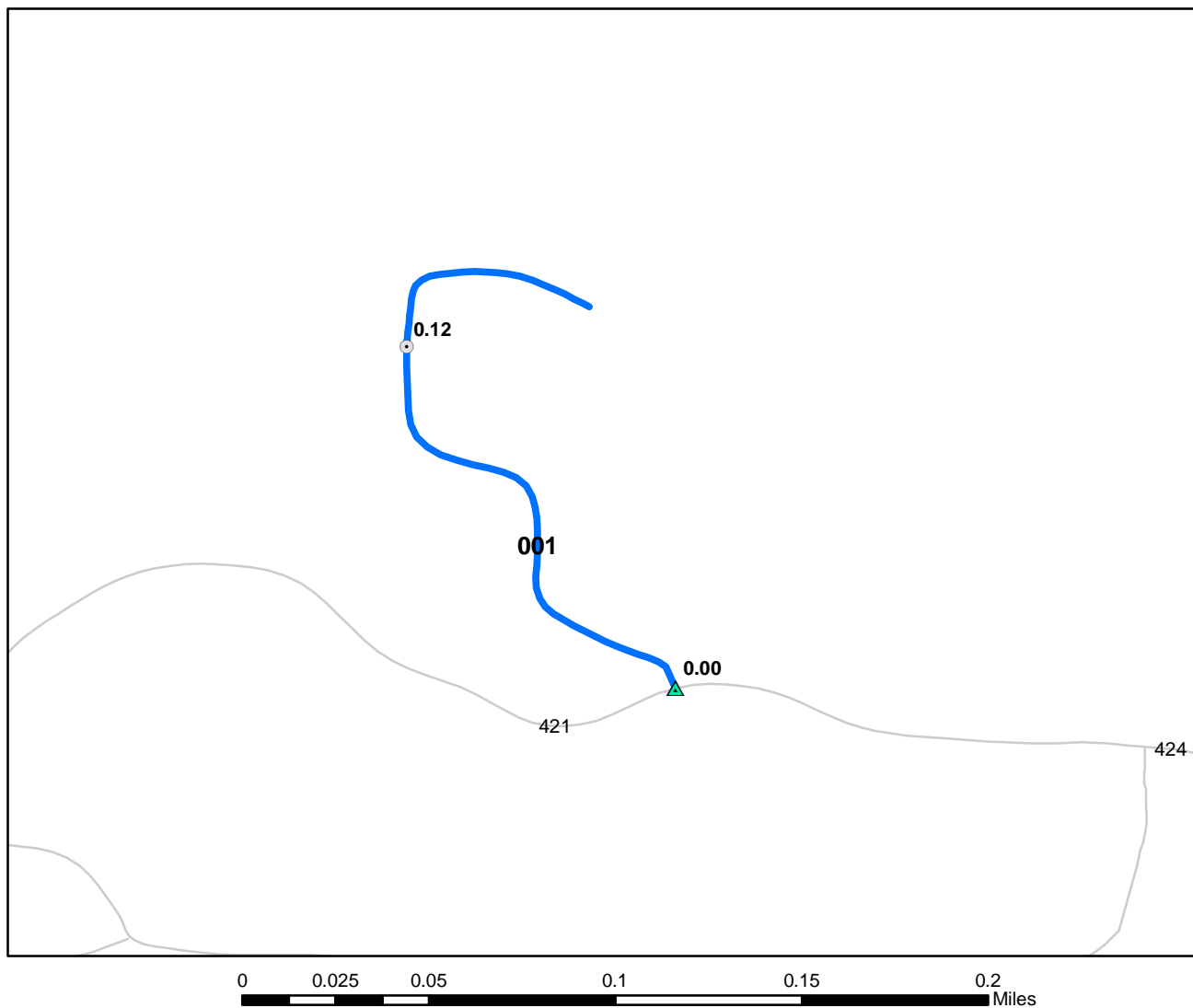


ROUTE: 419 D-Line Dike Road TOTAL LENGTH: 12.47 Miles

ASSET: 10050366

RTE DESCRIPTION: From H-Line Parking #1 (Route 912) to Perry Hunter Parking #2 (Route 920)

Section Number	011	012	013		
Section Length (miles)	1.00	1.01	0.50		
Inspection Date	4/24/2008	4/24/2008	4/24/2008		
Section Information					
Surface Type	Gravel	Gravel	Gravel		
Number of Lanes	1	1	1		
Roadway Width (feet)	12	12	12		
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent		
Remaining Service Life (years)	9	9	9		
Cost Estimate	\$0	\$0	\$0		
CRV	\$663100	\$668500	\$333700		



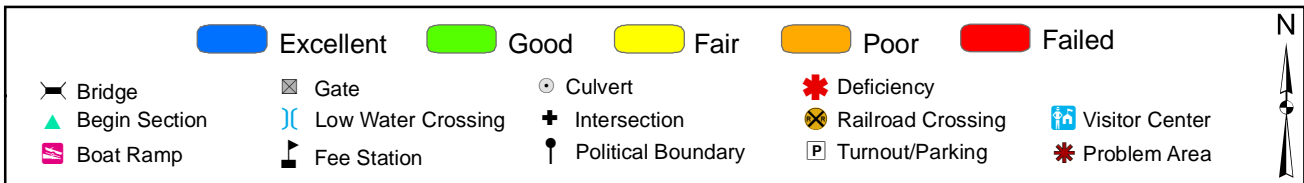
ROUTE: 420 Nichols Pond 2 Road

TOTAL LENGTH: 0.17 Miles

ASSET: 10045928

RTE DESCRIPTION: From Nichols Pond 3 Road (Route 421) to end of route

Section Number	001				
Section Length (miles)	0.17				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	9				
Cost Estimate	\$0				
CRV	\$115500				

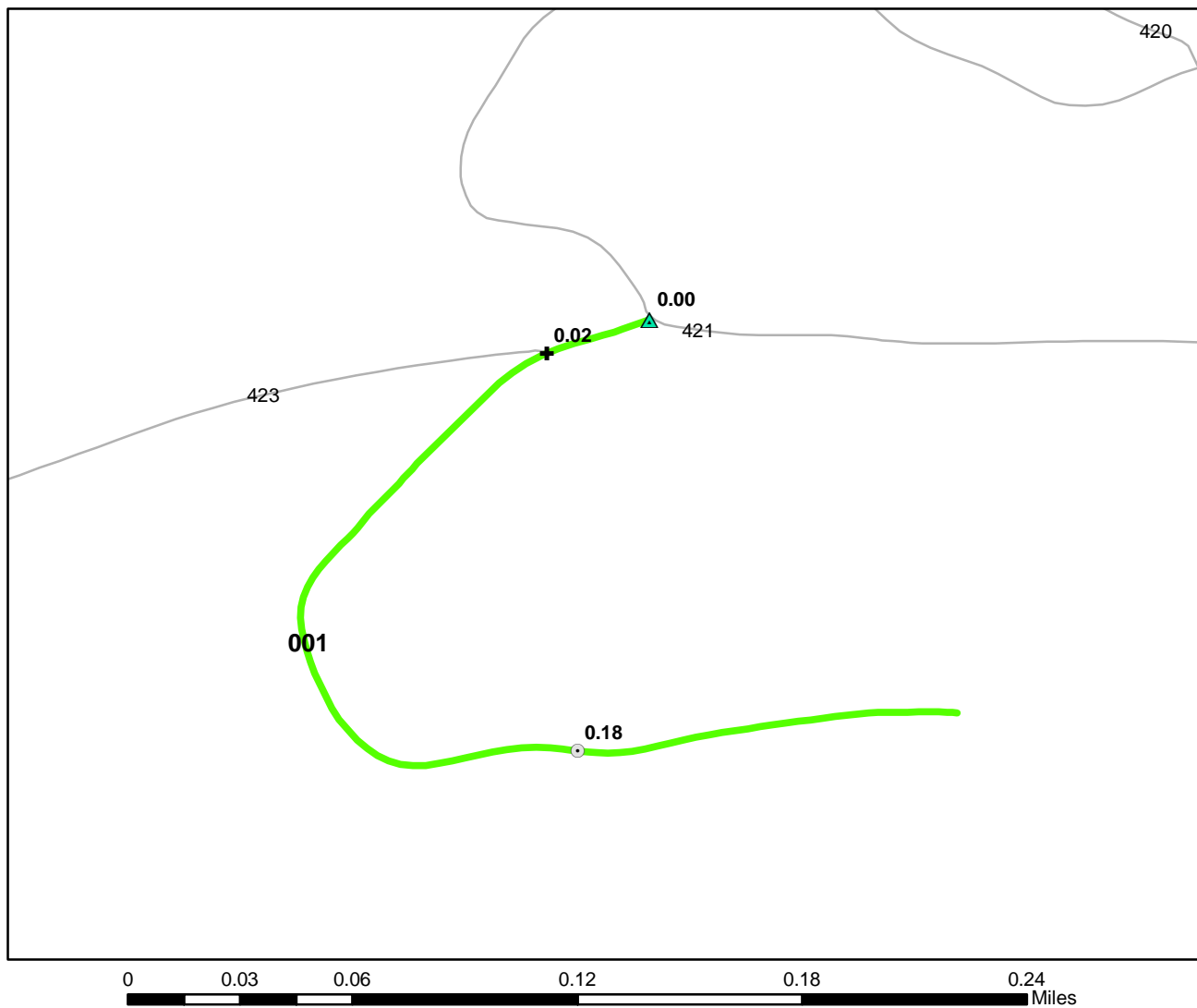


ROUTE: 421 Nichols Pond 3 Road TOTAL LENGTH: 0.61 Miles

ASSET: 10045976

RTE DESCRIPTION: From Nichols Unit Access Road (Route 425) to end of loop

Section Number	001				
Section Length (miles)	0.61				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	\$1000				
CRV	\$408100				



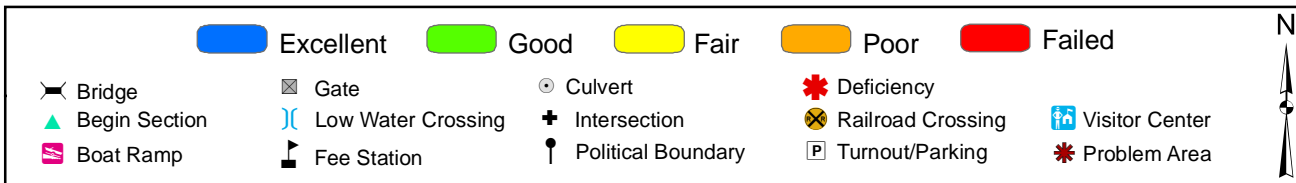
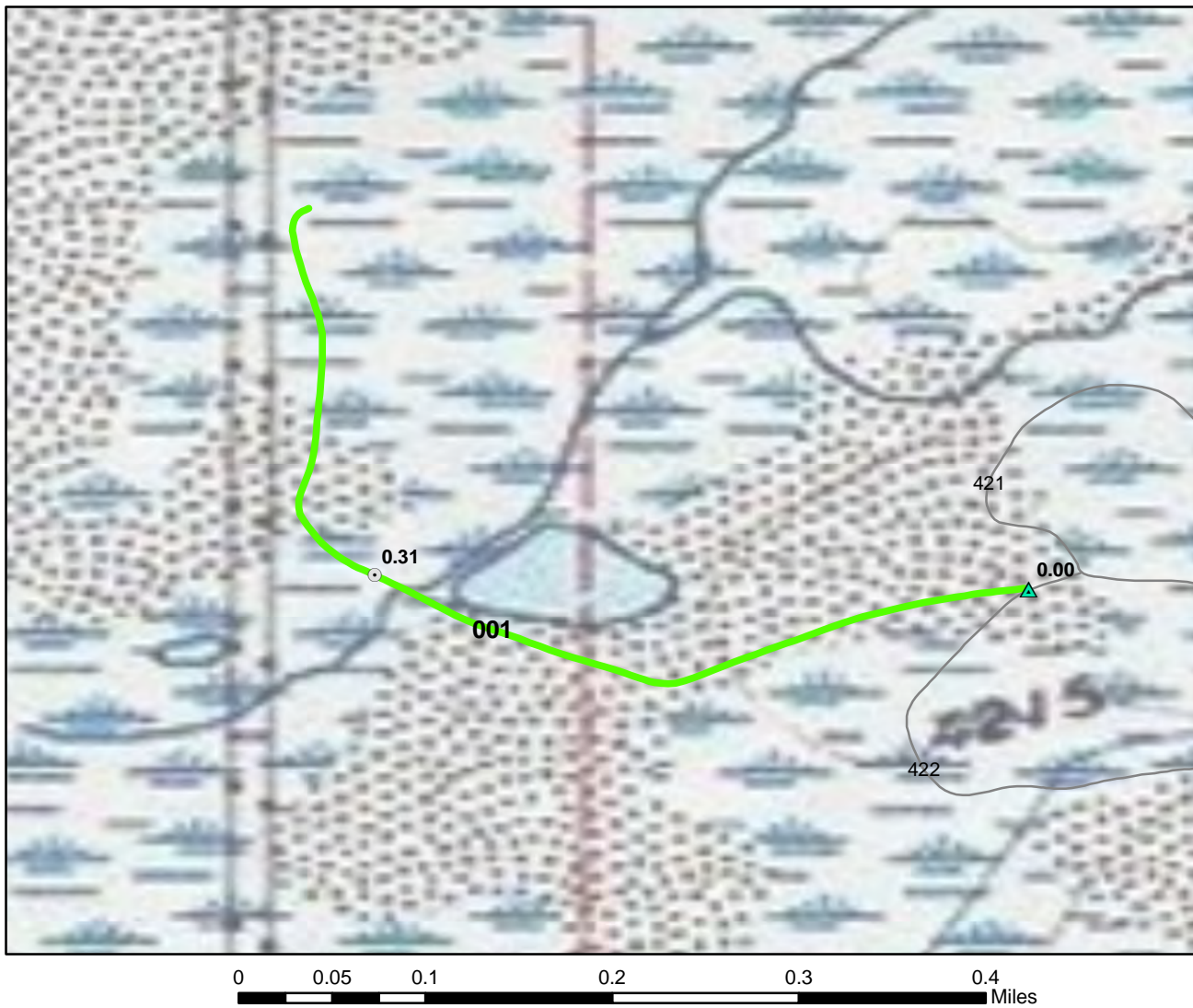
<div> <div>Excellent</div> <div>Good</div> <div>Fair</div> <div>Poor</div> <div>Failed</div> </div>		<div> <div>Bridge</div> <div>Gate</div> <div>Culvert</div> <div>Deficiency</div> <div>Railroad Crossing</div> <div>Visitor Center</div> <div>Boat Ramp</div> <div>Low Water Crossing</div> <div>Intersection</div> <div>Railroad Crossing</div> <div>Turnout/Parking</div> <div>Fee Station</div> <div>Political Boundary</div> <div>Problem Area</div> </div>		<div> <div>N</div> <div></div> </div>	
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ROUTE: 422 Nichols Pond 4 Road TOTAL LENGTH: 0.27 Miles

ASSET: 10045980

RTE DESCRIPTION: From Nichols Pond 3 Road (Route 421) to end of dike

Section Number	001				
Section Length (miles)	0.27				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	\$400				
CRV	\$92600				

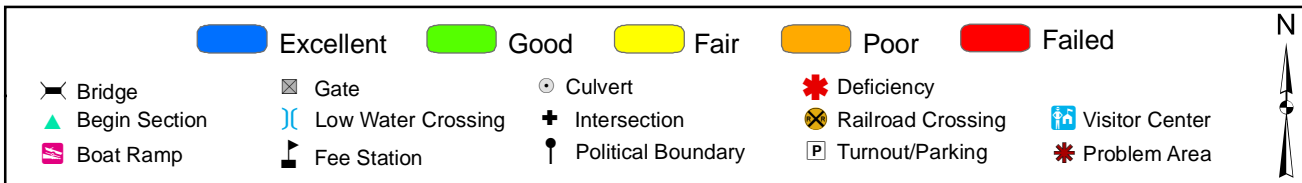
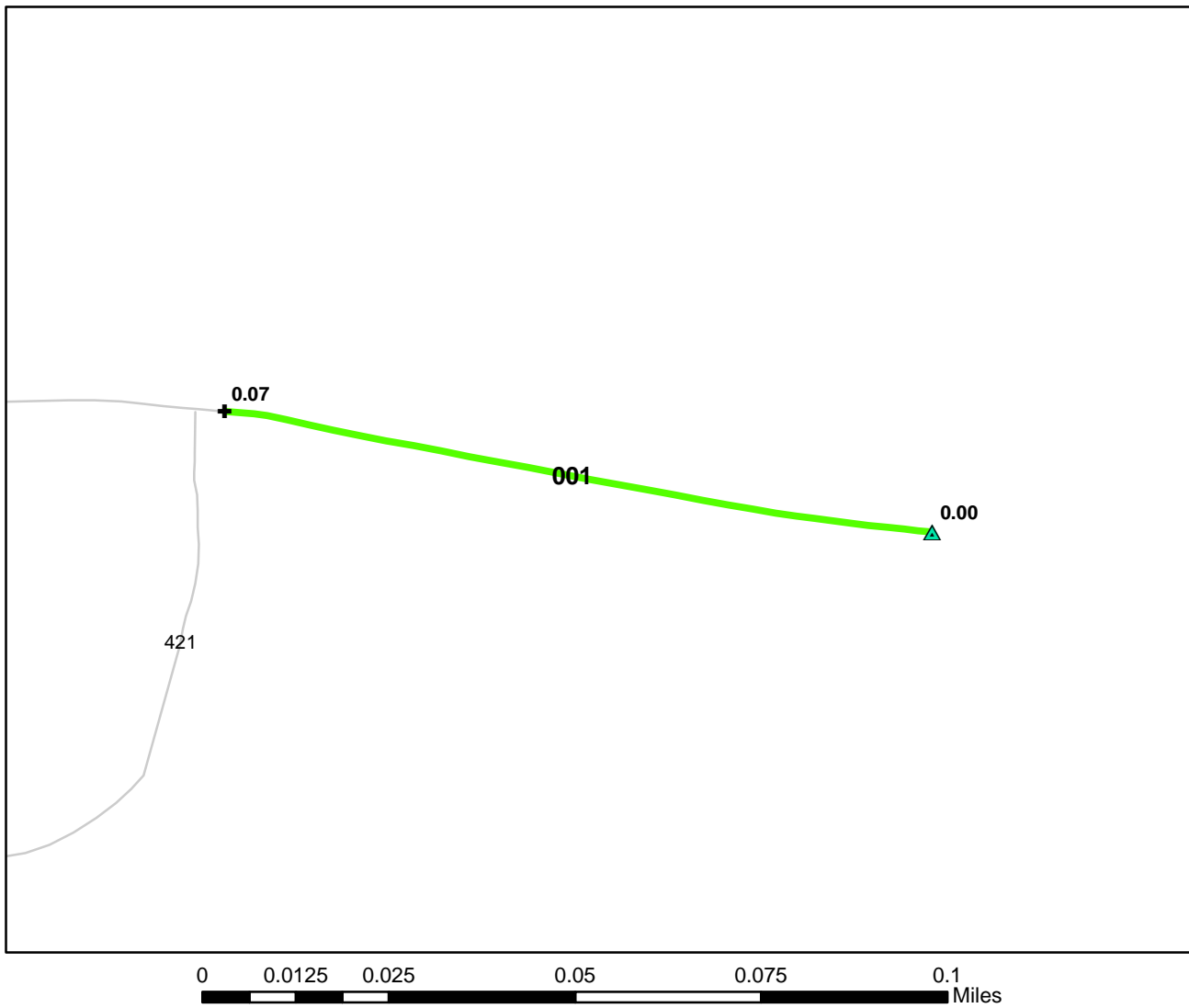


ROUTE: 423 Nichols Pond 5 Road TOTAL LENGTH: 0.5 Miles

ASSET: 10045933

RTE DESCRIPTION: From Nichols Pond 4 Road (Route 422) to end of route

Section Number	001				
Section Length (miles)	0.50				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$800				
CRV	\$333000				

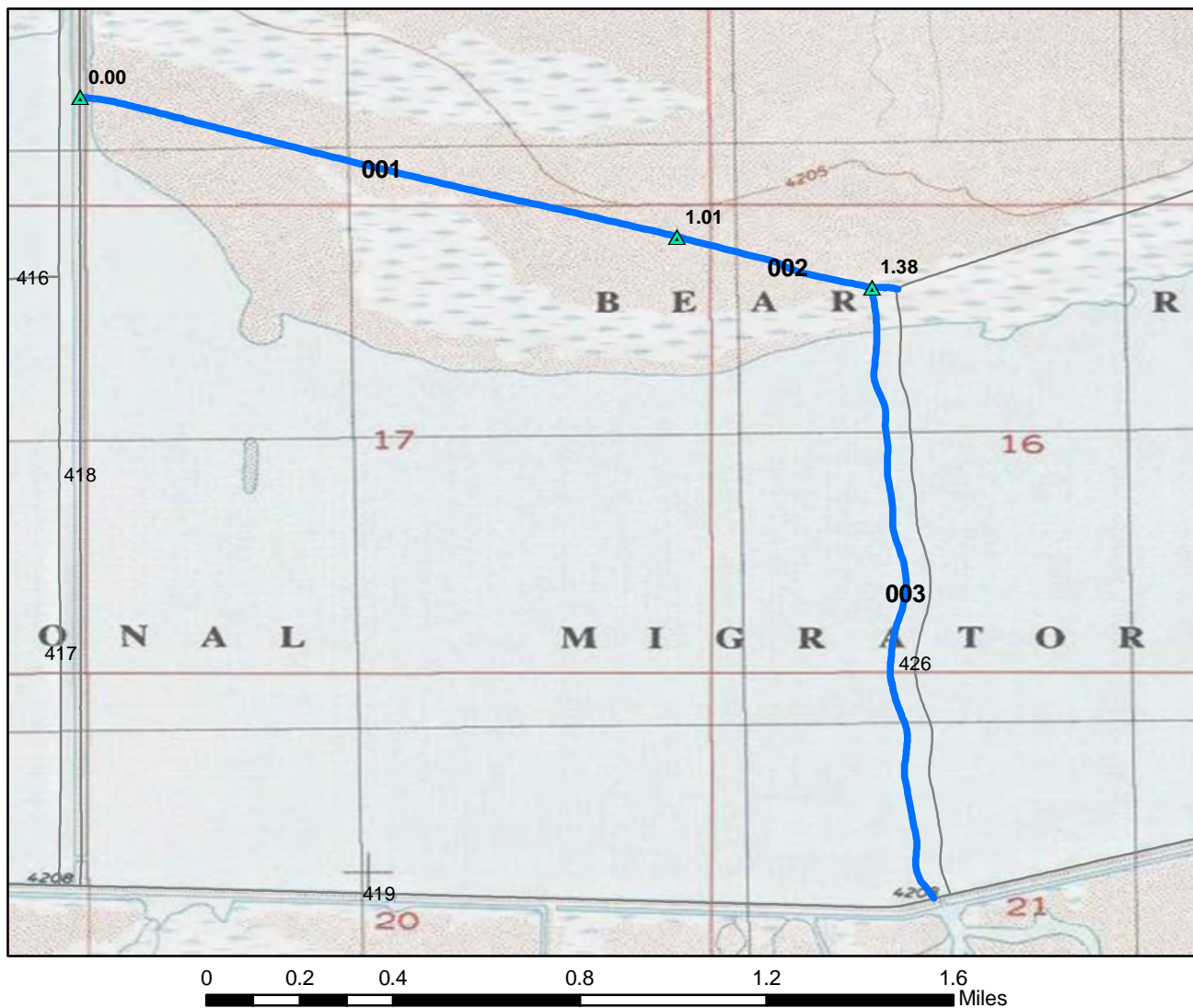


ROUTE: 424 Nichols Unit Access Road TOTAL LENGTH: 0.07 Miles

ASSET: 10034177

RTE DESCRIPTION: From frontage road to Nichols Pond 3 Road (Route 421)

Section Number	001				
Section Length (miles)	0.07				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	10				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	7				
Cost Estimate	\$100				
CRV	\$48600				



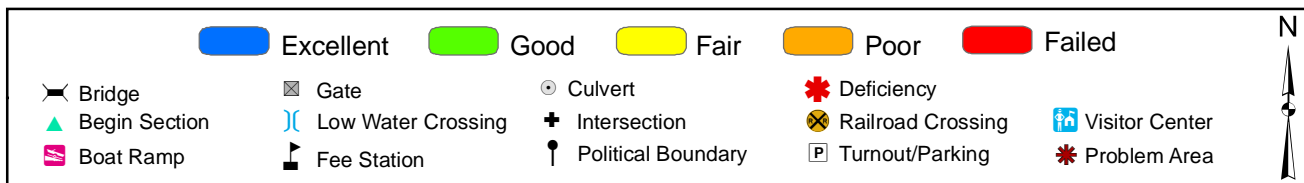
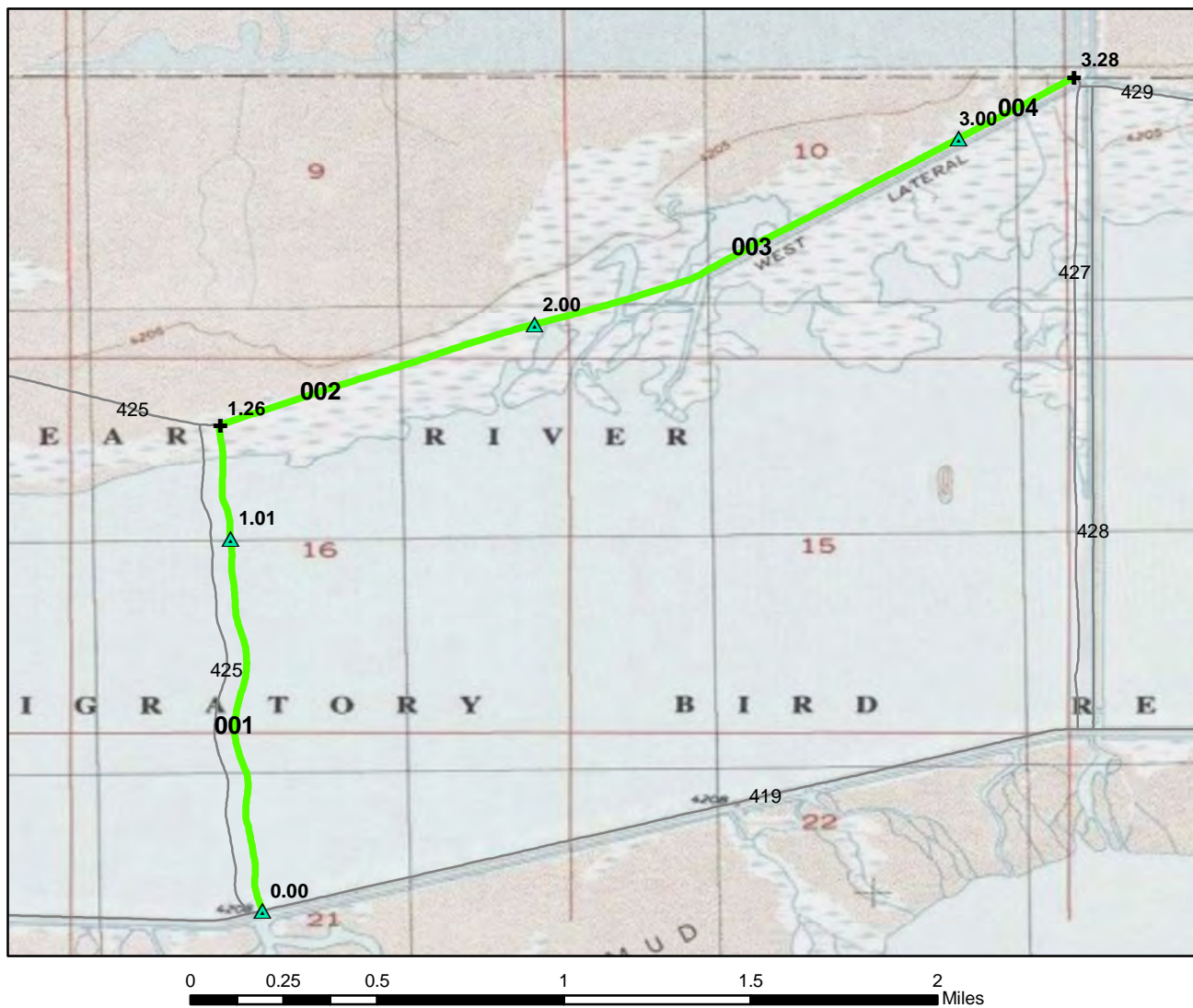
<div> <div>Excellent</div> <div>Good</div> <div>Fair</div> <div>Poor</div> <div>Failed</div> </div>		<div> <div>Bridge</div> <div>Gate</div> <div>Culvert</div> <div>Deficiency</div> <div>Railroad Crossing</div> <div>Visitor Center</div> </div>	
<div> <div>Begin Section</div> <div>Boat Ramp</div> </div>		<div> <div>Low Water Crossing</div> <div>Fee Station</div> <div>Intersection</div> <div>Political Boundary</div> <div>Turnout/Parking</div> <div>Problem Area</div> </div>	

ROUTE: 425 4B Dike Road TOTAL LENGTH: 2.71 Miles

ASSET: 10034027

RTE DESCRIPTION: From East O-Line Dike Road (Rte 419) to D-Line Dike Road (Route 420)

Section Number	001	002	003		
Section Length (miles)	1.01	0.38	1.33		
Inspection Date	4/25/2008	4/25/2008	4/25/2008		
Section Information					
Surface Type	Gravel	Gravel	Gravel		
Number of Lanes	1	1	1		
Roadway Width (feet)	12	12	12		
Roadway Condition Information					
Condition	Excellent	Excellent	Excellent		
Remaining Service Life (years)	9	9	9		
Cost Estimate	\$0	\$0	\$0		
CRV	\$669400	\$249200	\$882300		



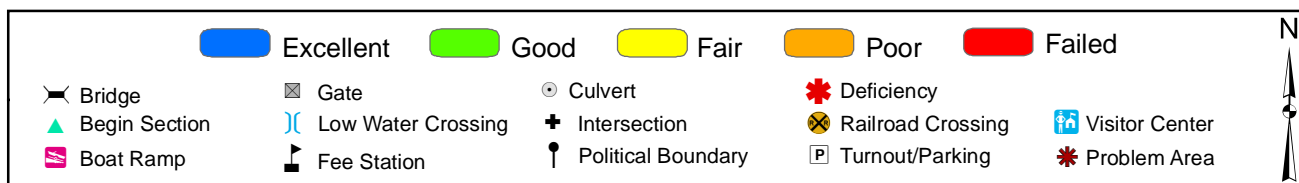
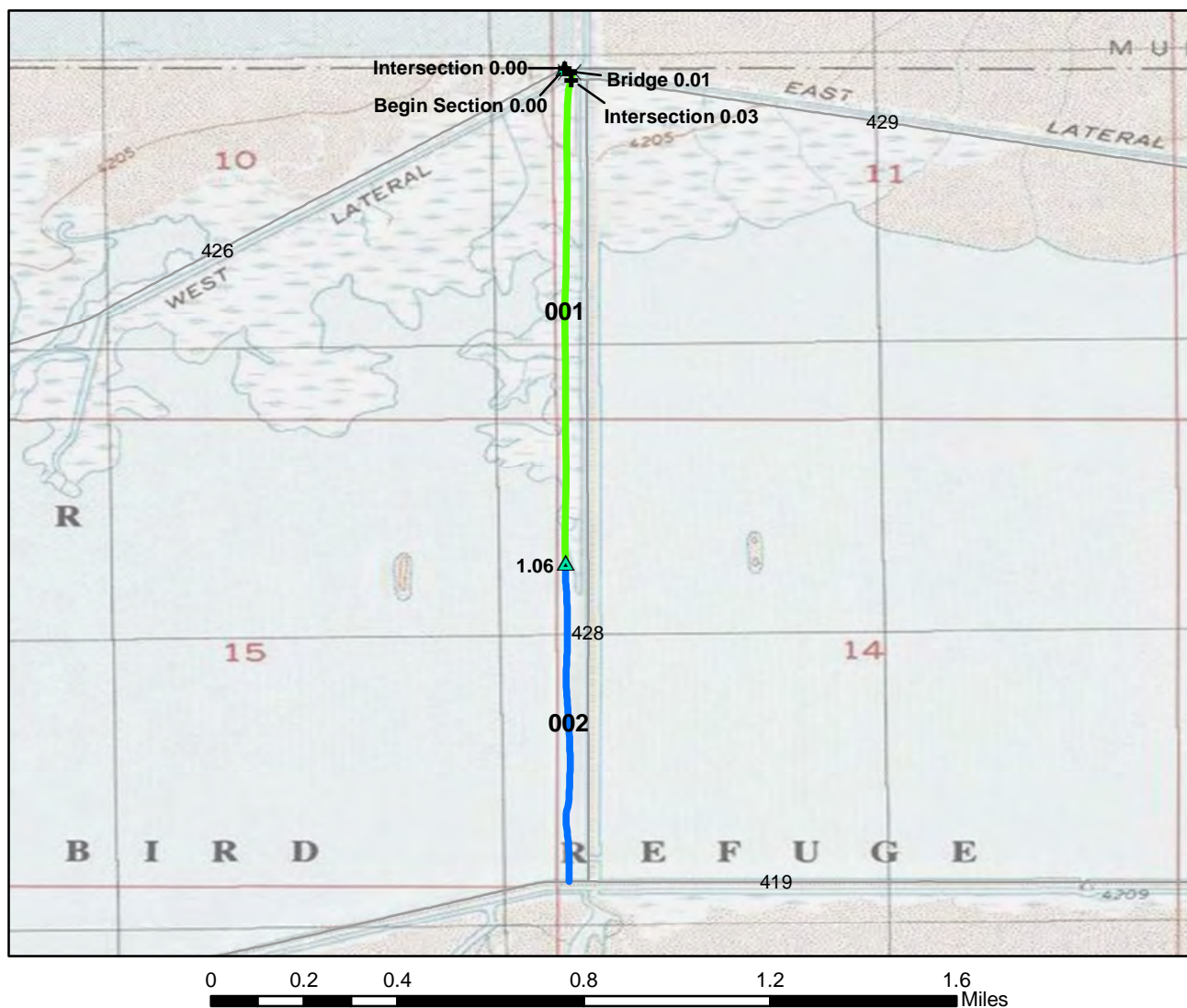
ROUTE: 426 4C Dike Road

TOTAL LENGTH: 3.28 Miles

ASSET: 10034214

RTE DESCRIPTION: From D-Line Dike Road (Rte 420) to Whistler (P-Line) West Road (Route 428)

Section Number	001	002	003	004	
Section Length (miles)	1.01	0.99	1.00	0.28	
Inspection Date	4/25/2008	4/25/2008	4/25/2008	4/25/2008	
Section Information					
Surface Type	Gravel	Gravel	Gravel	Gravel	
Number of Lanes	1	1	1	1	
Roadway Width (feet)	12	12	12	10	
Roadway Condition Information					
Condition	Good	Good	Good	Good	
Remaining Service Life (years)	7	6	7	5	
Cost Estimate	\$1600	\$1500	\$1600	\$400	
CRV	\$669500	\$658600	\$661400	\$188500	

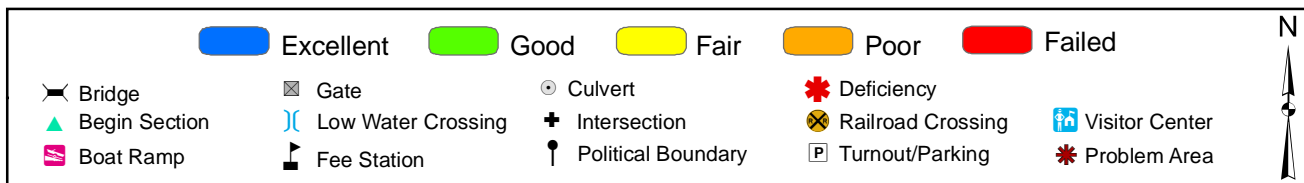
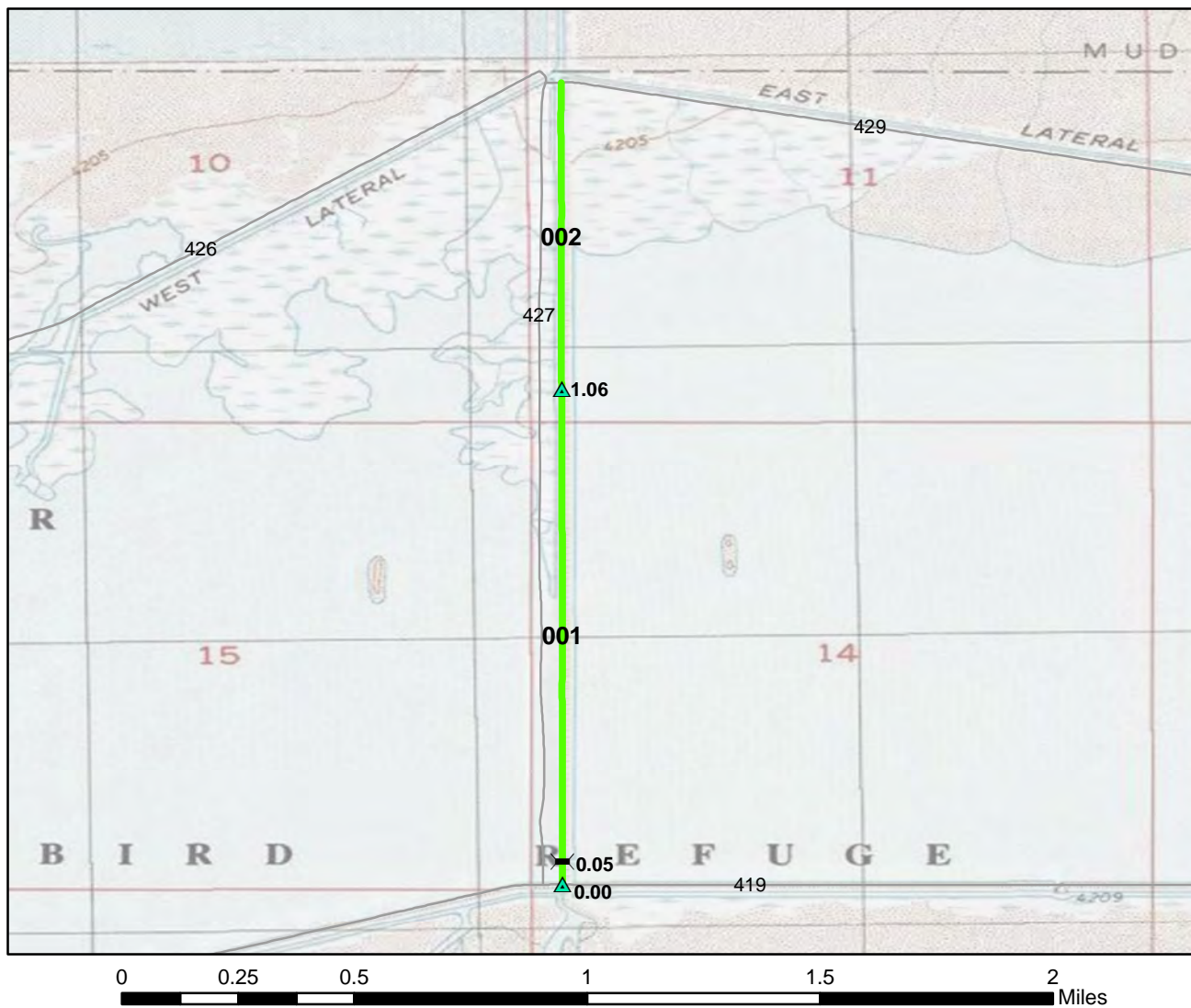


ROUTE: 427 Whistler (P-Line) West Road TOTAL LENGTH: 1.75 Miles

ASSET: 10034140

RTE DESCRIPTION: From 4C Dike Road (Route 427) to D-Line Dike Road (Route 420)

Section Number	001	002			
Section Length (miles)	1.06	0.69			
Inspection Date	4/25/2008	4/25/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Good	Excellent			
Remaining Service Life (years)	7	8			
Cost Estimate	\$1700	\$0			
CRV	\$706900	\$455400			

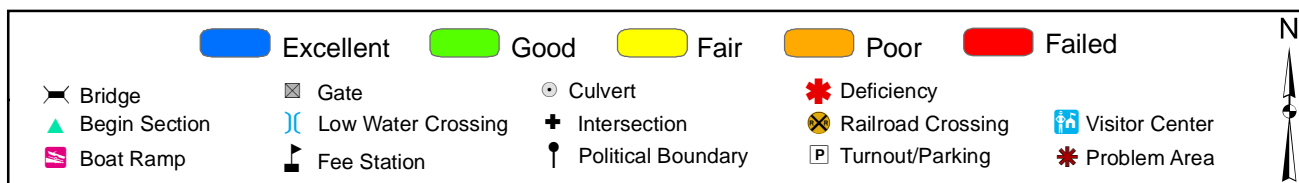
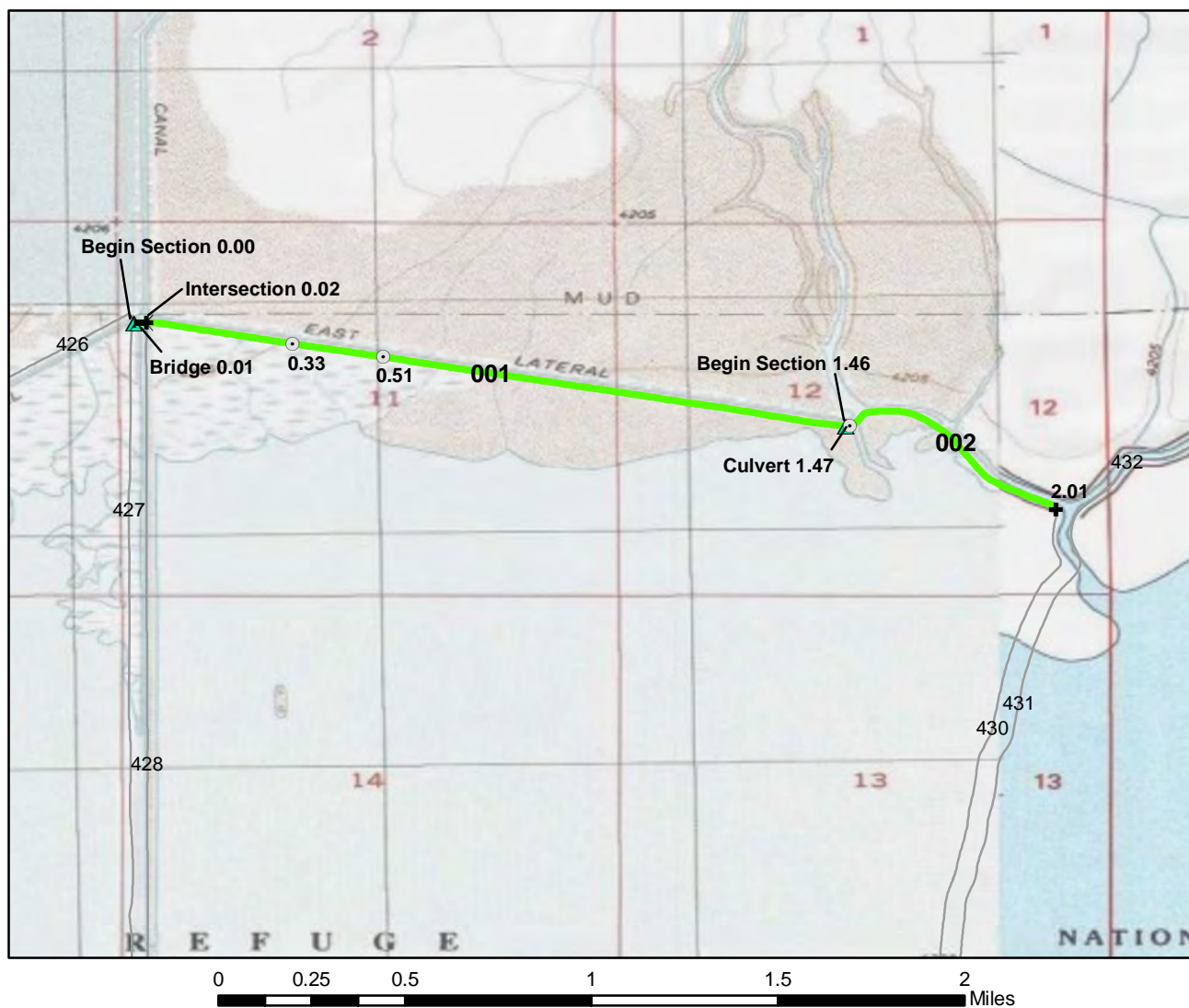


ROUTE: 428 Whistler (P-Line) East Road TOTAL LENGTH: 1.72 Miles

ASSET: 10034028

RTE DESCRIPTION: From D-Line Dike Road (Route 420) to Dike Service Road (Route 430)

Section Number	001	002			
Section Length (miles)	1.06	0.66			
Inspection Date	4/25/2008	4/25/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	7	5			
Cost Estimate	\$1700	\$1000			
CRV	\$705600	\$436000			



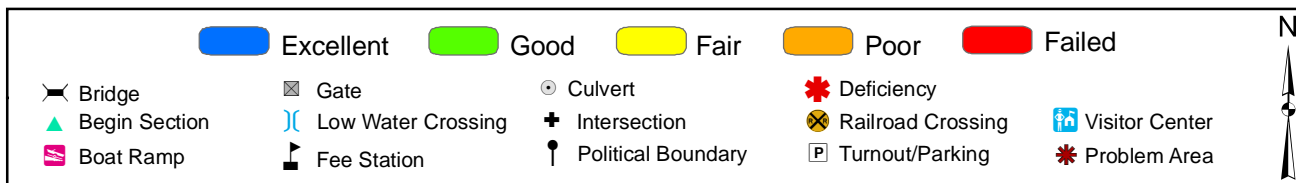
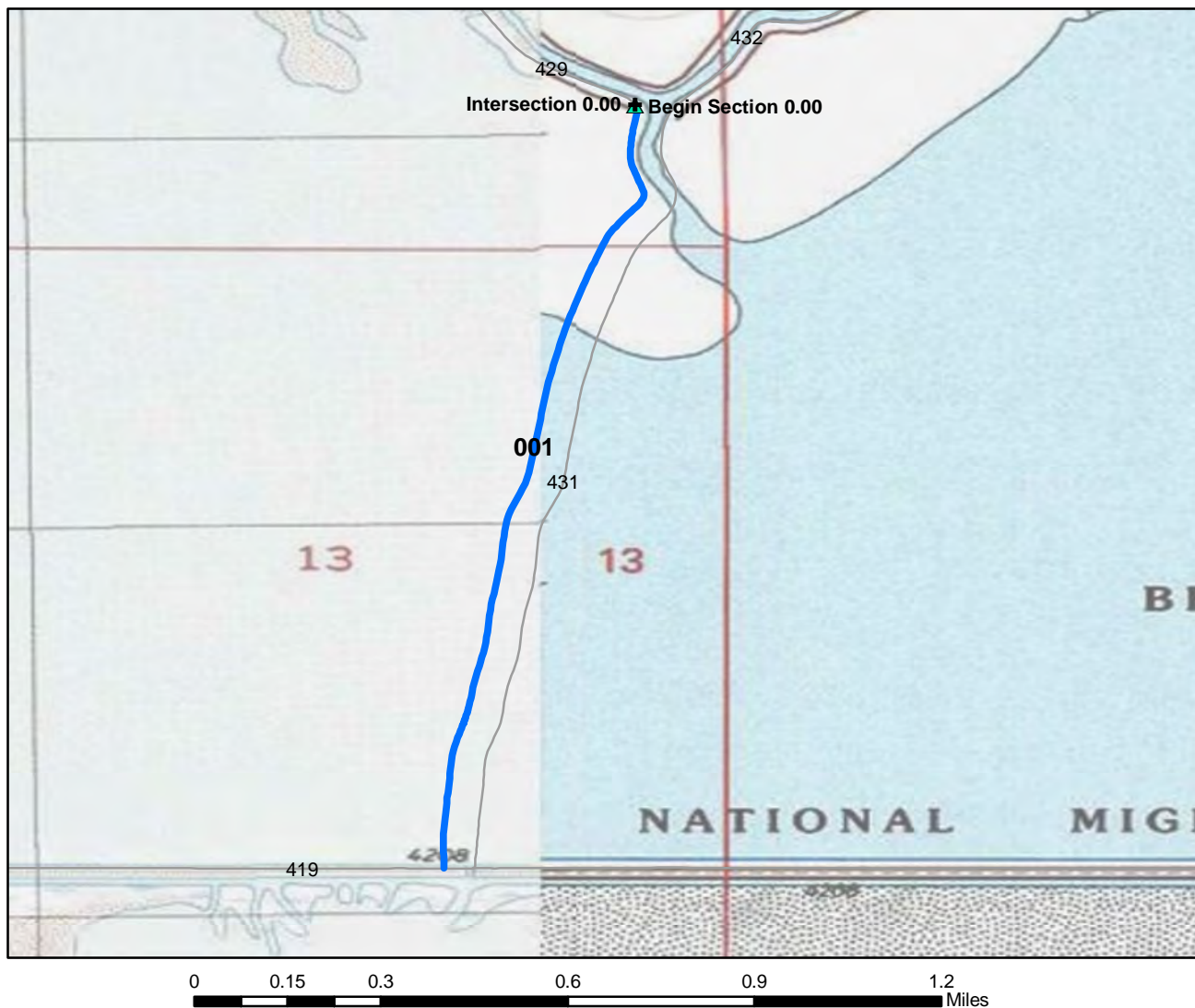
ROUTE: 429 Dike Service Road

TOTAL LENGTH: 2 Miles

ASSET: 10034055

RTE DESCRIPTION: From Whistler (P-Line) West Road (Route 428) to West Unit 5 Drain Dike Road (Route 431)

Section Number	001	002			
Section Length (miles)	1.46	0.54			
Inspection Date	4/25/2008	4/25/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	8	8			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	5	5			
Cost Estimate	\$2400	\$900			
CRV	\$502200	\$187200			

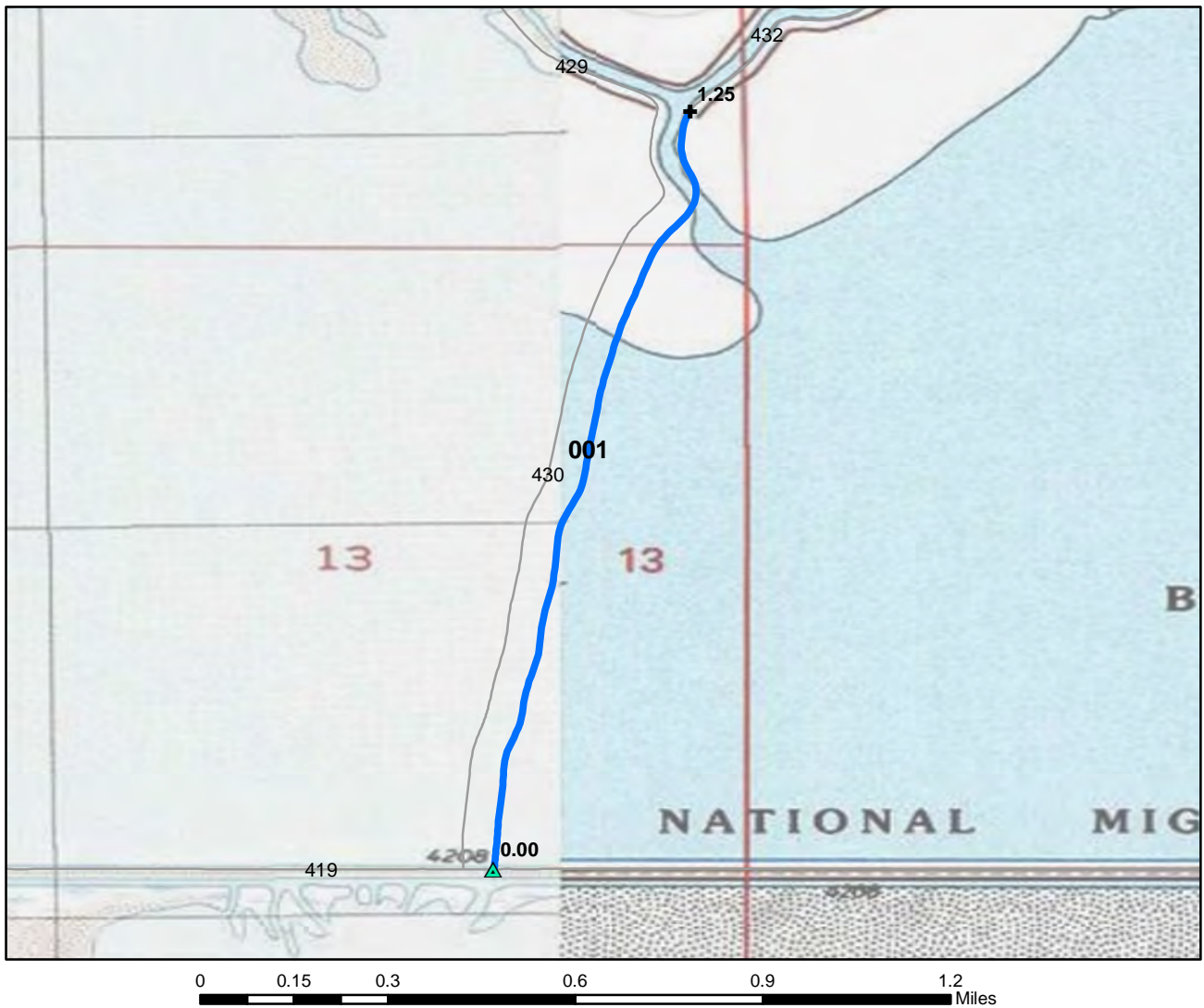


ROUTE: 430 West Unit 5 Drain Dike Road TOTAL LENGTH: 1.26 Miles

ASSET: 10034109

RTE DESCRIPTION: From Dike Service Road (Route 430) to D-Line Dike Road (Route 420)

Section Number	001				
Section Length (miles)	1.26				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	10				
Cost Estimate	\$0				
CRV	\$434600				



ROUTE: 431 East Unit 5 Drain Dike Road TOTAL LENGTH: 1.25 Miles

ASSET: 10034100

RTE DESCRIPTION: From D-Line Dike Road (Route 420) to 5C North Dike Road West (Route 433)

Section Number	001				
Section Length (miles)	1.25				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	12				
Roadway Condition Information					
Condition	Excellent				
Remaining Service Life (years)	10				
Cost Estimate	\$0				
CRV	\$430800				



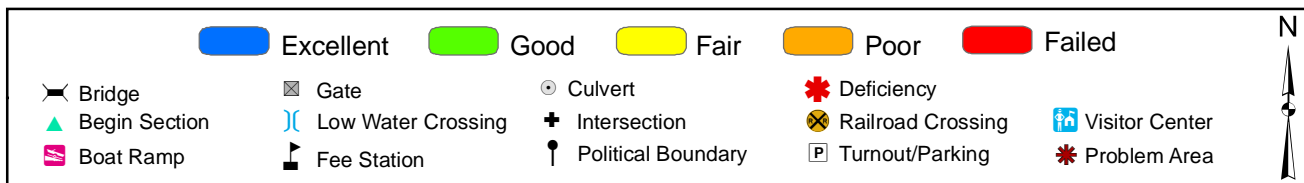
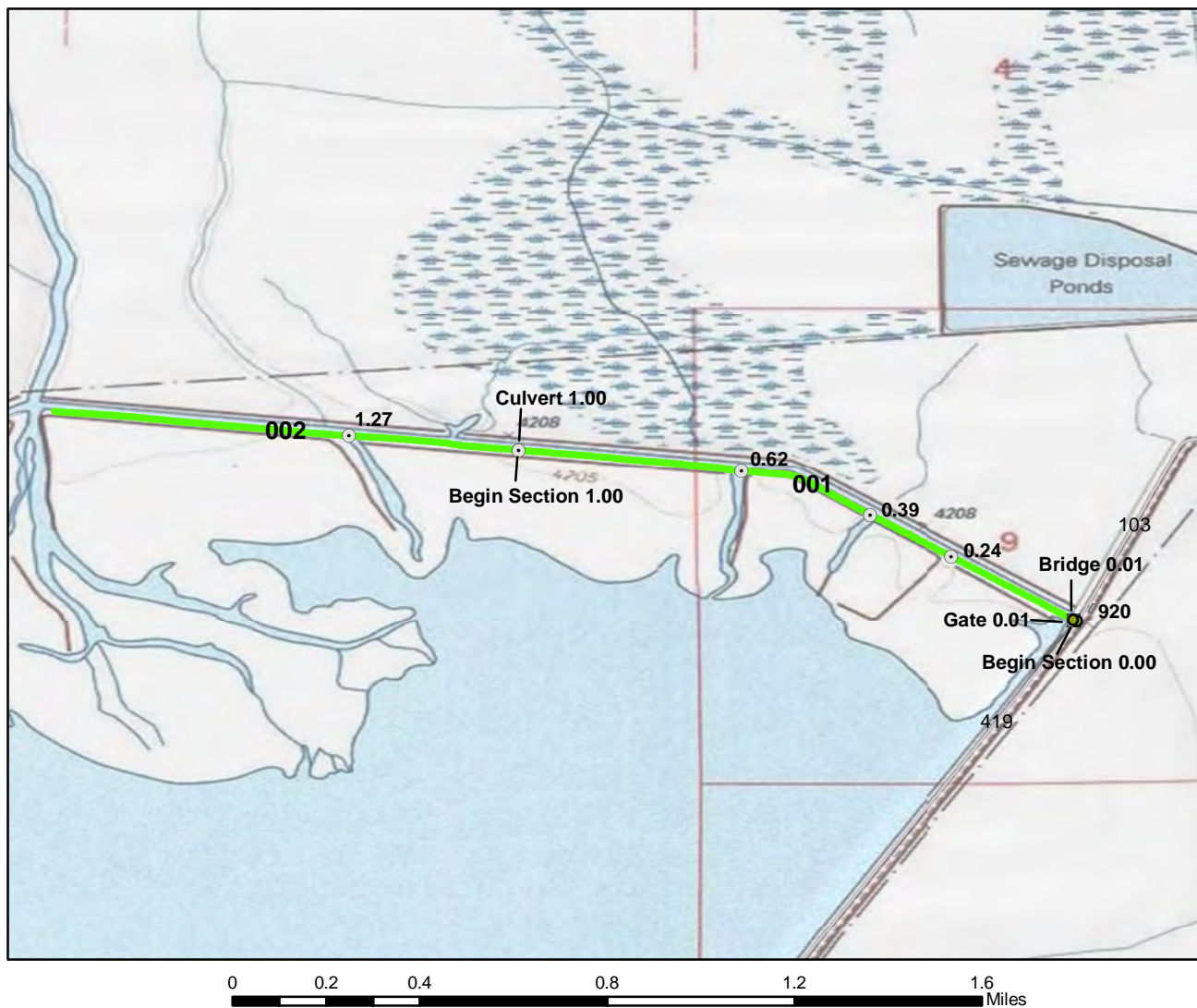
<div> <div>Excellent</div> <div>Good</div> <div>Fair</div> <div>Poor</div> <div>Failed</div> </div>		<div> <div>Bridge</div> <div>Gate</div> <div>Culvert</div> <div>Deficiency</div> <div>Railroad Crossing</div> <div>Visitor Center</div> <div>Boat Ramp</div> <div>Low Water Crossing</div> <div>Intersection</div> <div>Turnout/Parking</div> <div>Fee Station</div> <div>Political Boundary</div> <div>Problem Area</div> </div>		<div> <div>N</div> <div>↑</div> </div>	
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ROUTE: 432 5C North Dike Road West TOTAL LENGTH: 2.92 Miles

ASSET: 10034100

RTE DESCRIPTION: From East Unit 5 Drain Dike Road (Route 432) to end of route

Section Number	001	002			
Section Length (miles)	1.01	0.16			
Inspection Date	4/25/2008	4/25/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	8	8			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	5	5			
Cost Estimate	\$1700	\$300			
CRV	\$348800	\$53500			

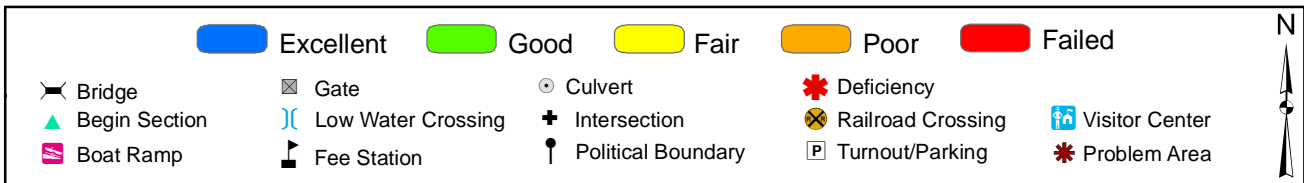
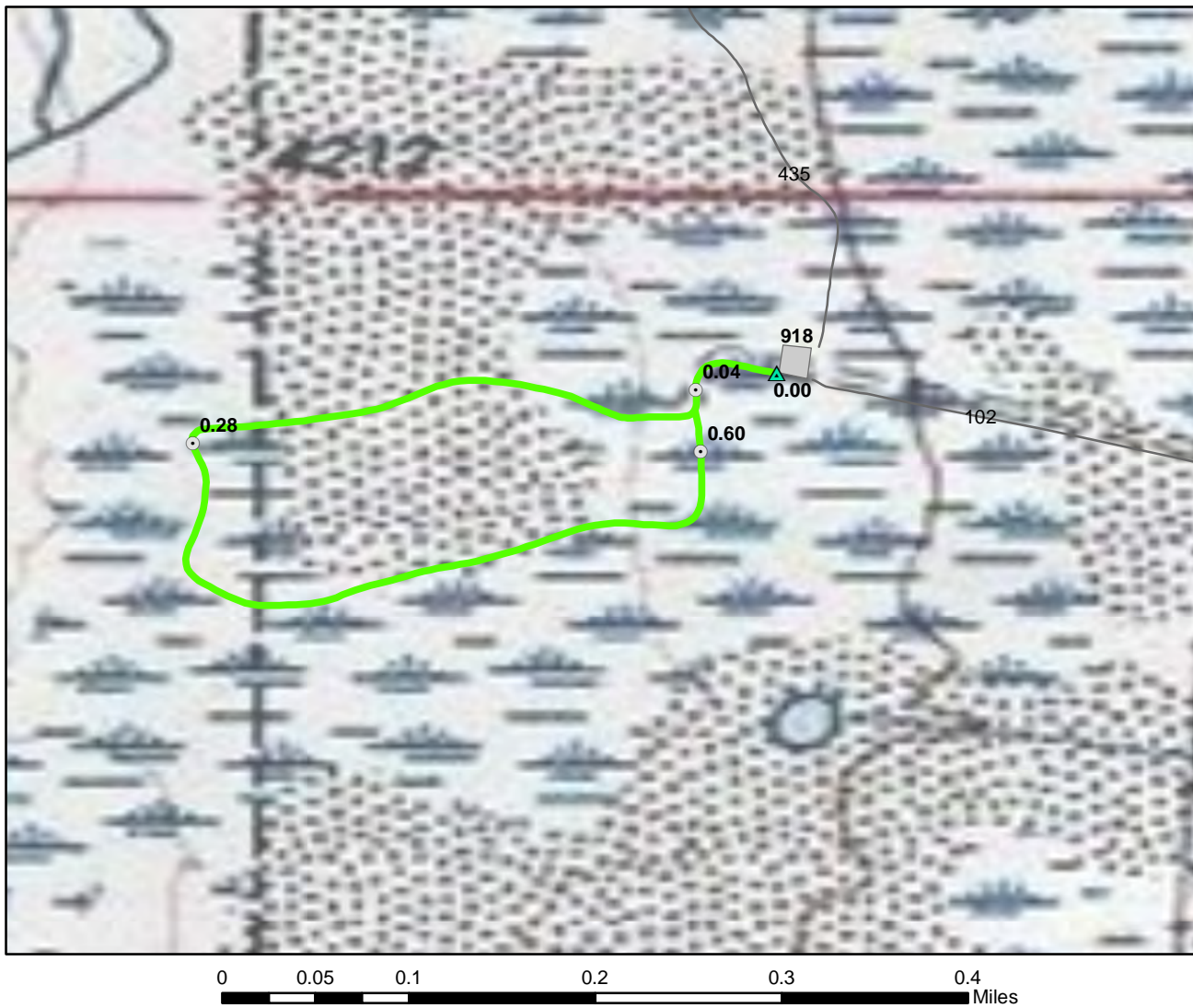


ROUTE: 433 5C North Dike Road East TOTAL LENGTH: 2.92 Miles

ASSET: 10034055

RTE DESCRIPTION: From Perry Hunter Parking #2 (Route 920) to end of route

Section Number	001	002			
Section Length (miles)	1.00	0.75			
Inspection Date	4/25/2008	4/25/2008			
Section Information					
Surface Type	Native	Native			
Number of Lanes	1	1			
Roadway Width (feet)	8	8			
Roadway Condition Information					
Condition	Good	Good			
Remaining Service Life (years)	5	5			
Cost Estimate	\$1700	\$1200			
CRV	\$342400	\$257500			



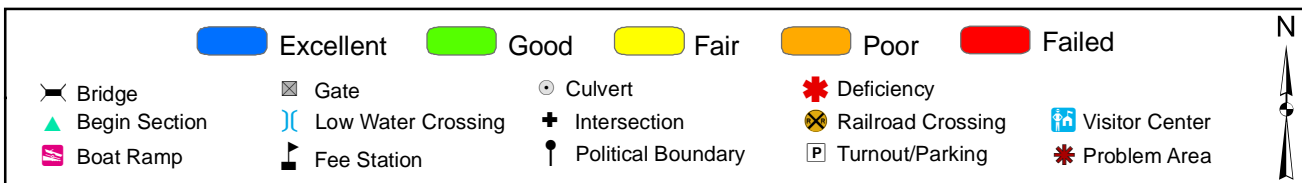
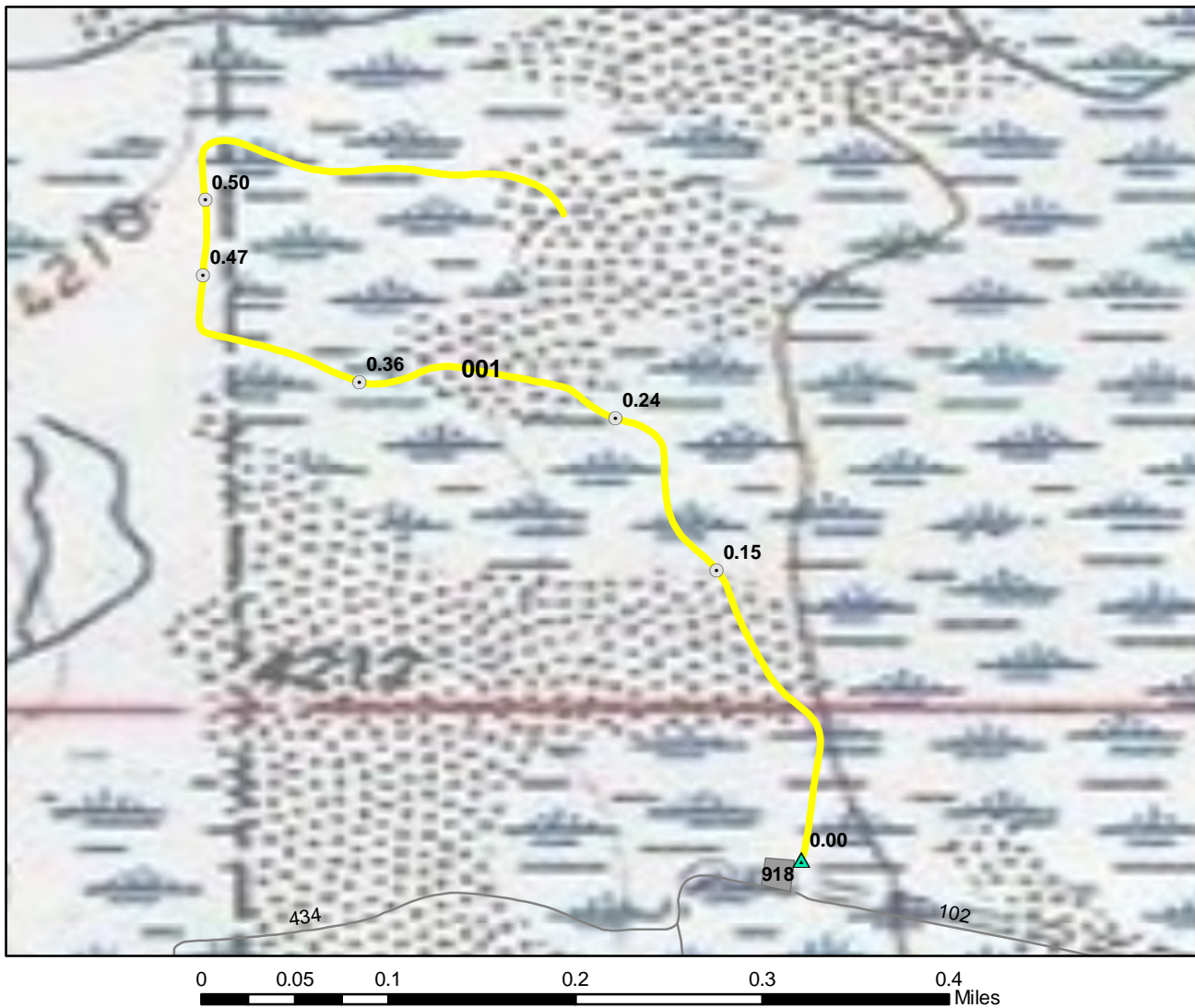
ROUTE: 434 W7 Pond Access Road

TOTAL LENGTH: 0.62 Miles

ASSET: 10045966

RTE DESCRIPTION: From White's Parking (Route 918) to end of loop

Section Number	001				
Section Length (miles)	0.62				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Native				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Good				
Remaining Service Life (years)	5				
Cost Estimate	\$1000				
CRV	\$212400				



ROUTE: 435 W5 Pond Access Road

TOTAL LENGTH: 0.7 Miles

ASSET: 10045953

RTE DESCRIPTION: From White's Parking (Route 918) to end of route

Section Number	001				
Section Length (miles)	0.70				
Inspection Date	4/25/2008				
Section Information					
Surface Type	Gravel				
Number of Lanes	1				
Roadway Width (feet)	8				
Roadway Condition Information					
Condition	Fair				
Remaining Service Life (years)	3				
Cost Estimate	\$2400				
CRV	\$466200				



<div> <div>Excellent</div> <div>Good</div> <div>Fair</div> <div>Poor</div> <div>Failed</div> </div>		<div> <div>Bridge</div> <div>Gate</div> <div>Culvert</div> <div>Deficiency</div> <div>Railroad Crossing</div> <div>Visitor Center</div> <div>Boat Ramp</div> <div>Low Water Crossing</div> <div>Intersection</div> <div>Railroad Crossing</div> <div>Turnout/Parking</div> <div>Fee Station</div> <div>Political Boundary</div> <div>Problem Area</div> </div>		<div> <div>N</div> </div>	
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ROUTE: 436 North Nichols Access Road TOTAL LENGTH: 0.77 Miles

ASSET: 10058177

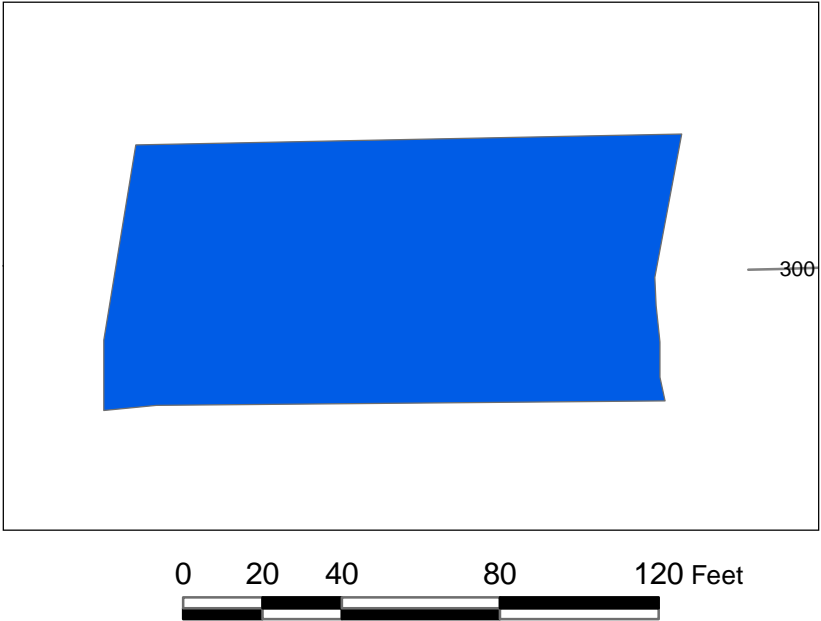
RTE DESCRIPTION: From Forest Street to end of route

Section Number	001	002			
Section Length (miles)	0.29	0.48			
Inspection Date	4/25/2008	4/25/2008			
Section Information					
Surface Type	Gravel	Gravel			
Number of Lanes	1	1			
Roadway Width (feet)	10	10			
Roadway Condition Information					
Condition	Excellent	Good			
Remaining Service Life (years)	9	7			
Cost Estimate	\$0	\$700			
CRV	\$192600	\$317900			

Bear River

Route 800: Education Center Staff Parking #1

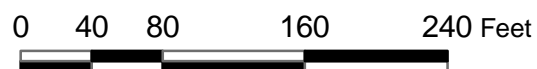
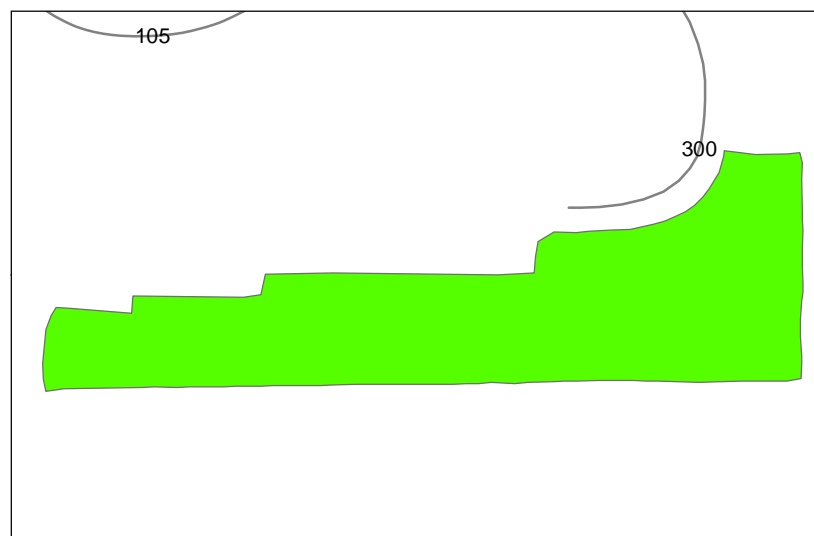
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10052698	4/23/2008	Asphalt	6978	Excellent	\$0



Bear River

Route 801: Education Center Staff Parking #2

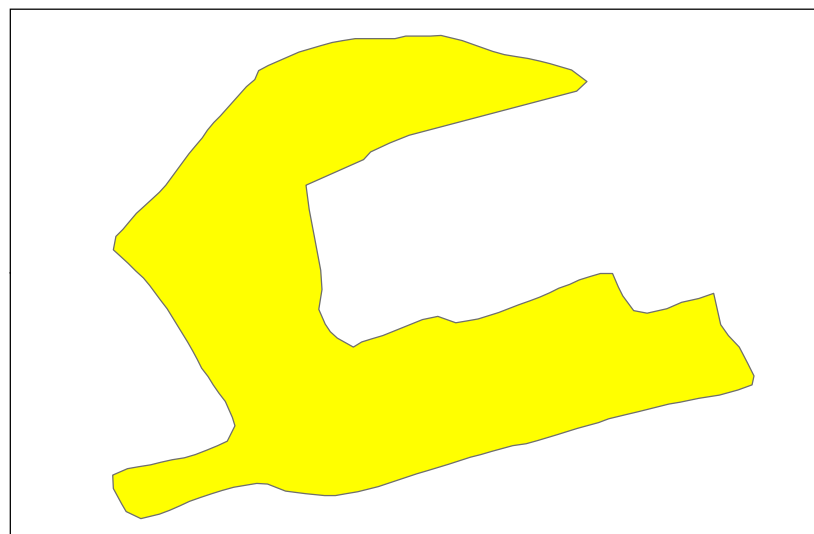
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10052698	4/23/2008	Gravel	23107	Good	\$3335



Bear River

Route 802: Shop Heavy Equipment Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
<Null>	4/24/2008	Gravel	38052	Fair	\$0

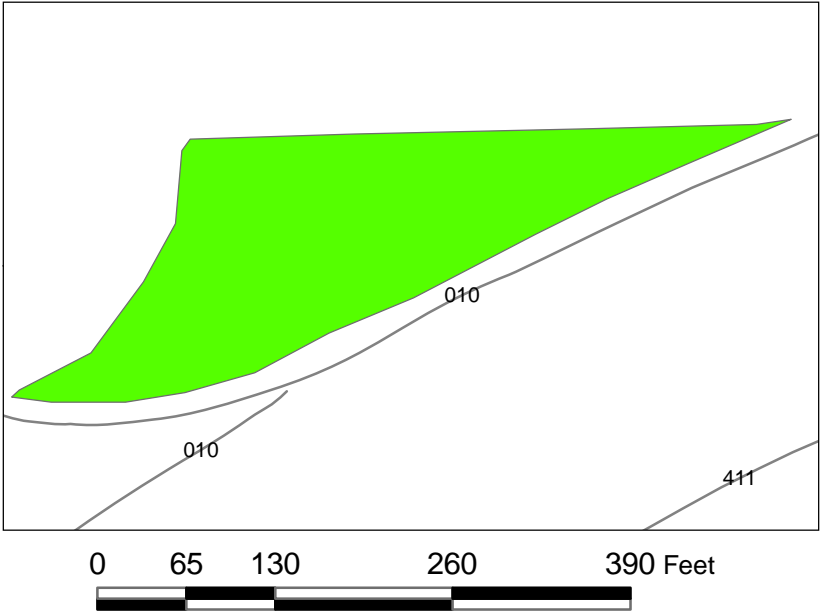


0 55 110 220 330 Feet

Bear River

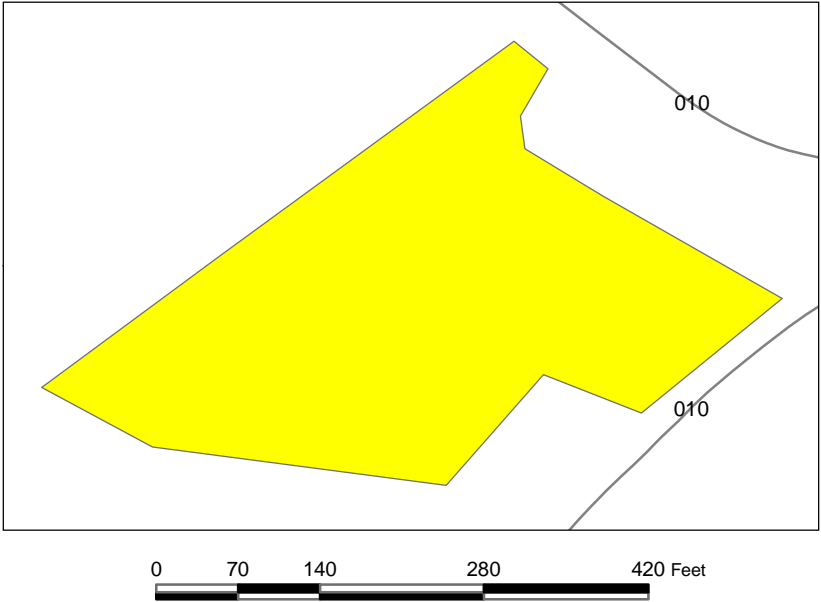
Route 900: Visitor Parking #1

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10034120	4/24/2008	Gravel	4067	Good	\$587



Bear River
Route 901: Visitor Parking #2

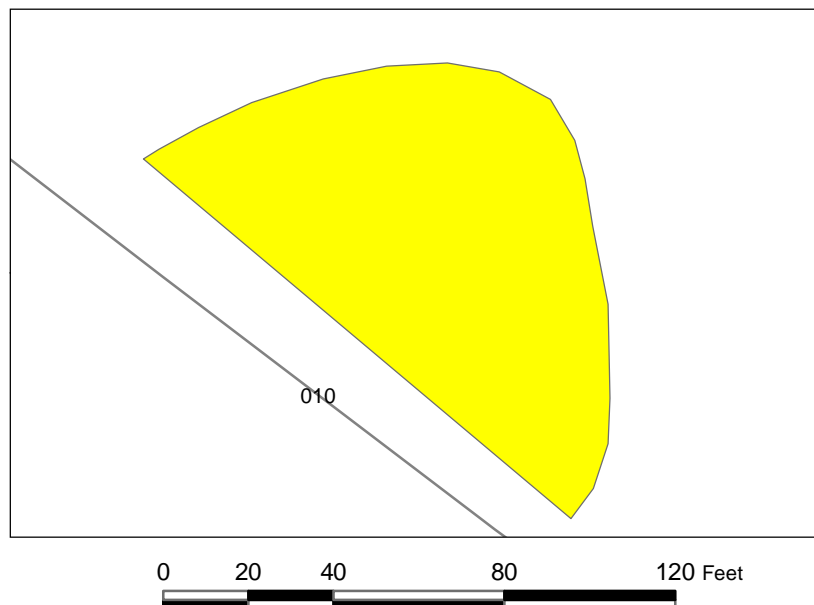
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10034120	4/24/2008	Gravel	9478	Fair	\$2414



Bear River

Route 902: Information Kiosk Parking

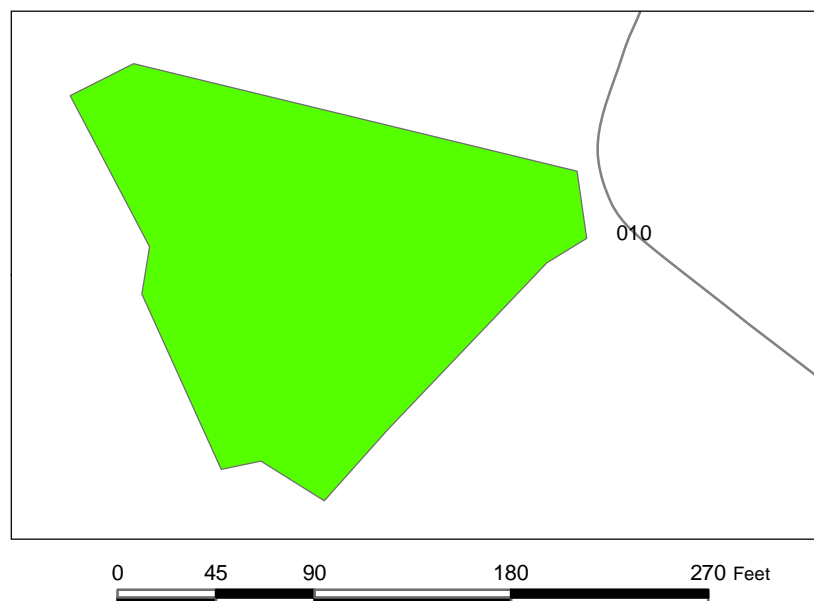
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10034120	4/24/2008	Gravel	4829	Fair	\$1230



Bear River

Route 903: Shop Parking

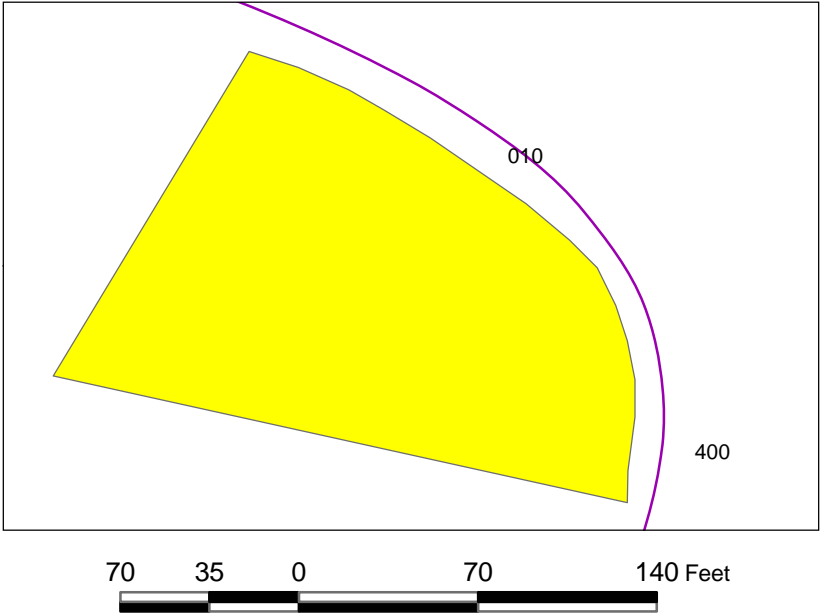
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051727	4/24/2008	Gravel	19940	Good	\$2878



Bear River

Route 904: Visitor Parking #3

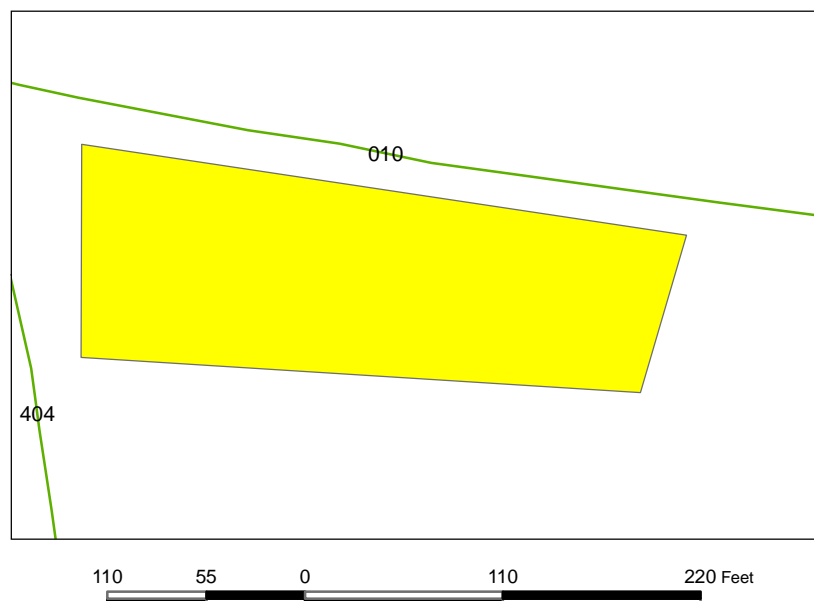
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10034120	4/24/2008	Gravel	17613	Fair	\$4486



Bear River

Route 905: Peabody Parking

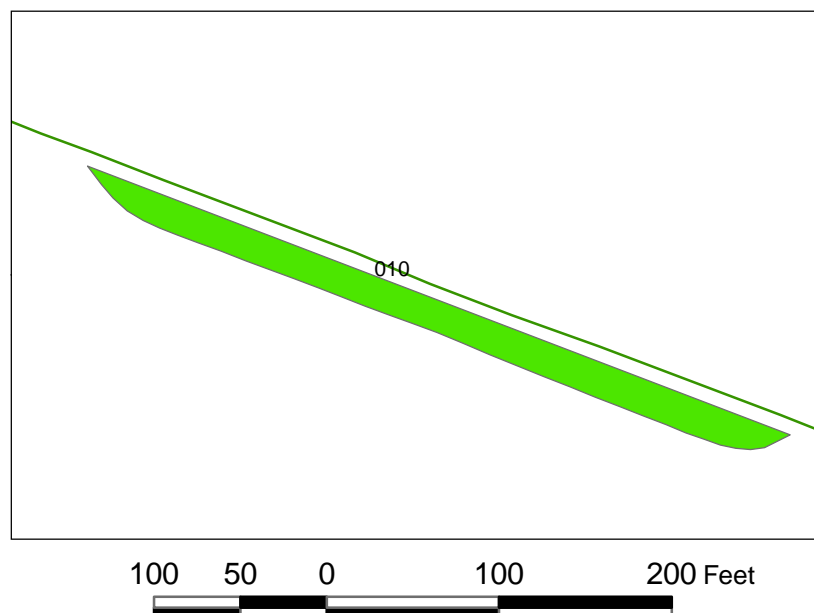
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	25435	Fair	\$6478



Bear River

Route 906: Auto Tour Parking

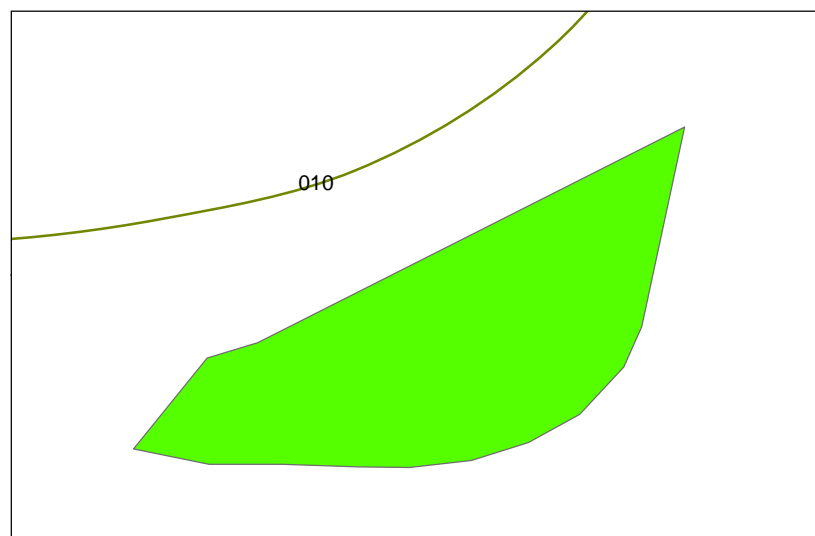
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	5858	Good	\$845



Bear River

Route 907: S-Curve Parking

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051743	4/24/2008	Gravel	1507	Good	\$218



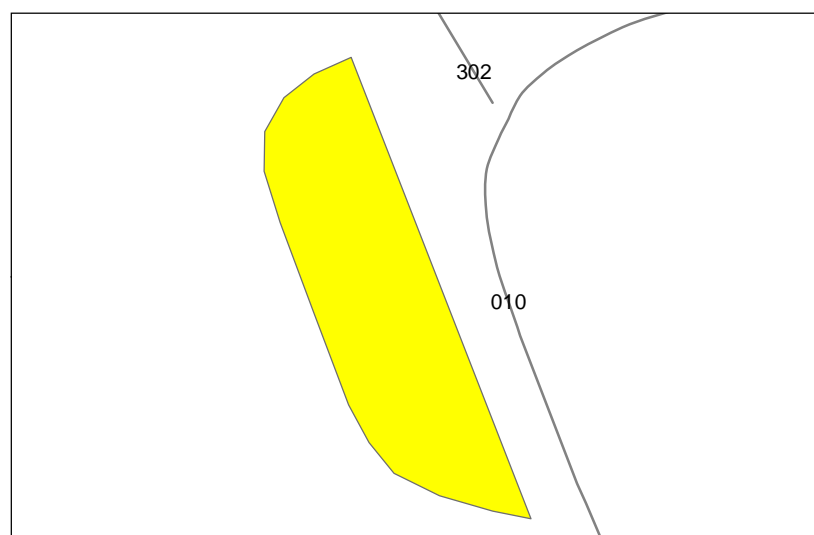
25 12.5 0 25 50 Feet

 A horizontal scale bar with alternating black and white segments, corresponding to the distance markings above it.


Bear River

Route 908: D-Line Parking #1

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	4158	Fair	\$1059



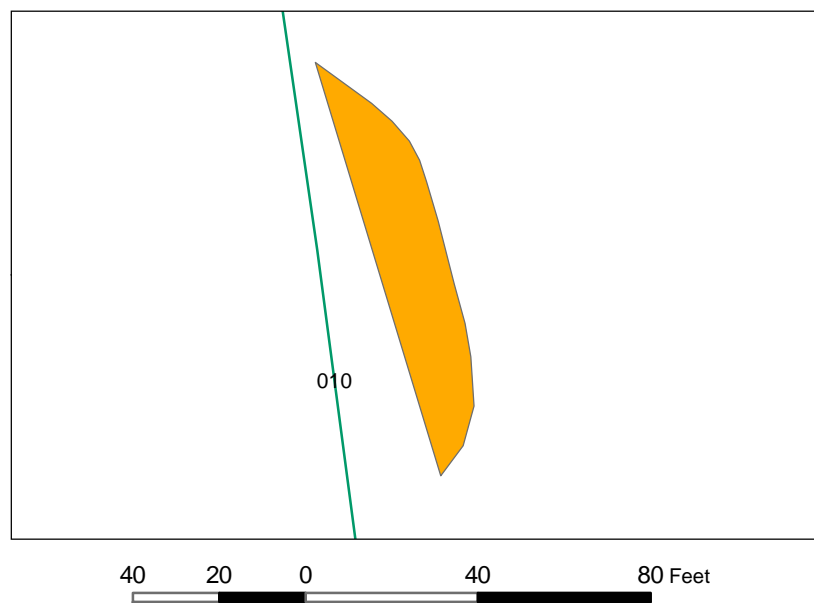
0 50 100 150 Feet

A horizontal scale bar with alternating black and white segments, marked with the numbers 0, 50, 100, and 150.


Bear River

Route 909: D-Line Parking #2

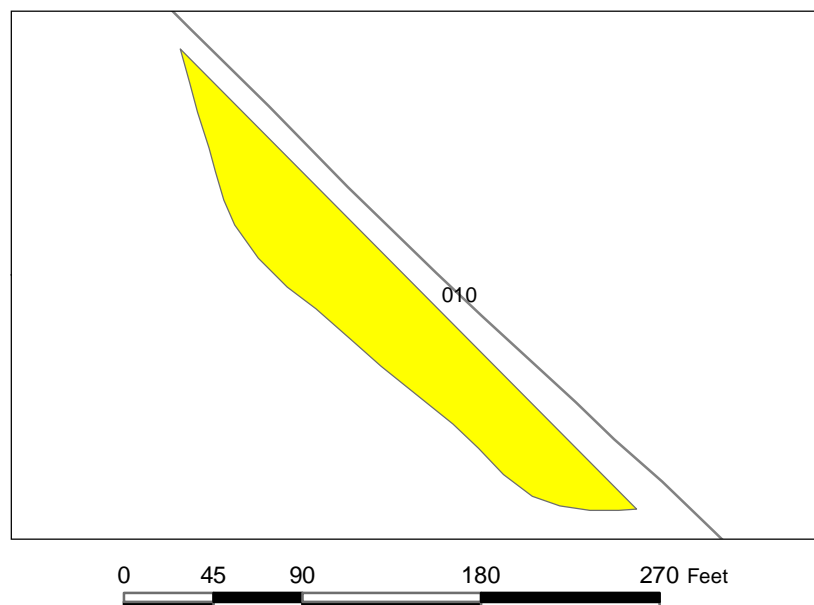
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	965	Fair	\$246



Bear River

Route 910: D-Line Parking #3

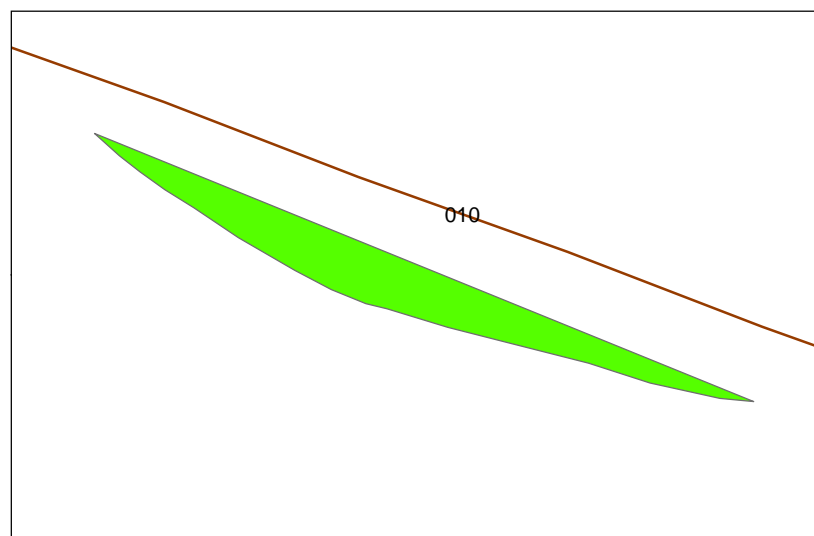
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	8190	Fair	\$2086



Bear River

Route 911: D-Line Parking #4

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	1067	Good	\$154



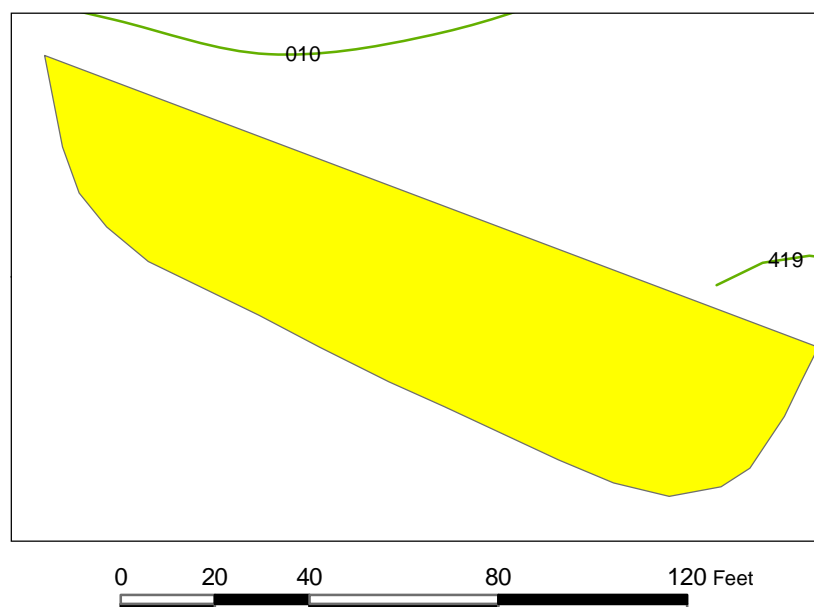
0 20 40 80 120 Feet



Bear River

Route 912: H-Line Parking #1

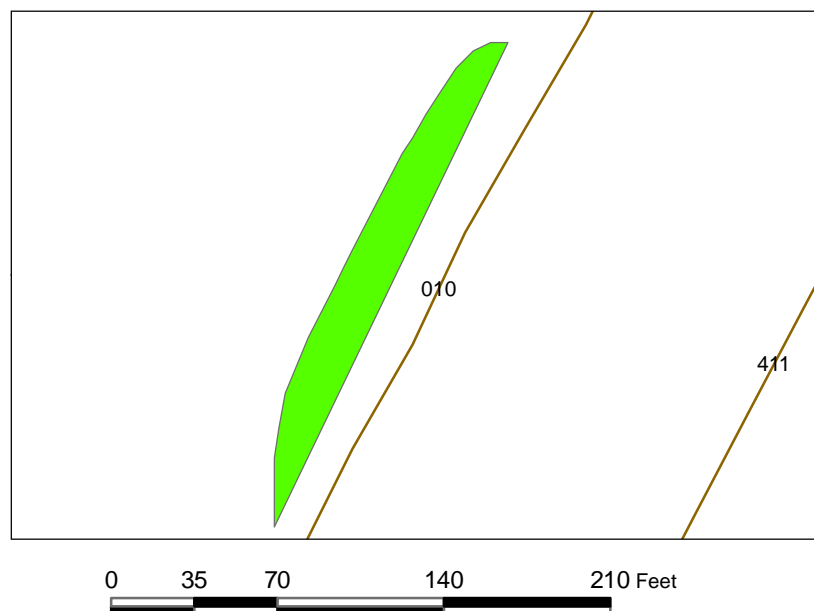
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	4530	Fair	\$1154



Bear River

Route 913: H-Line Parking #2

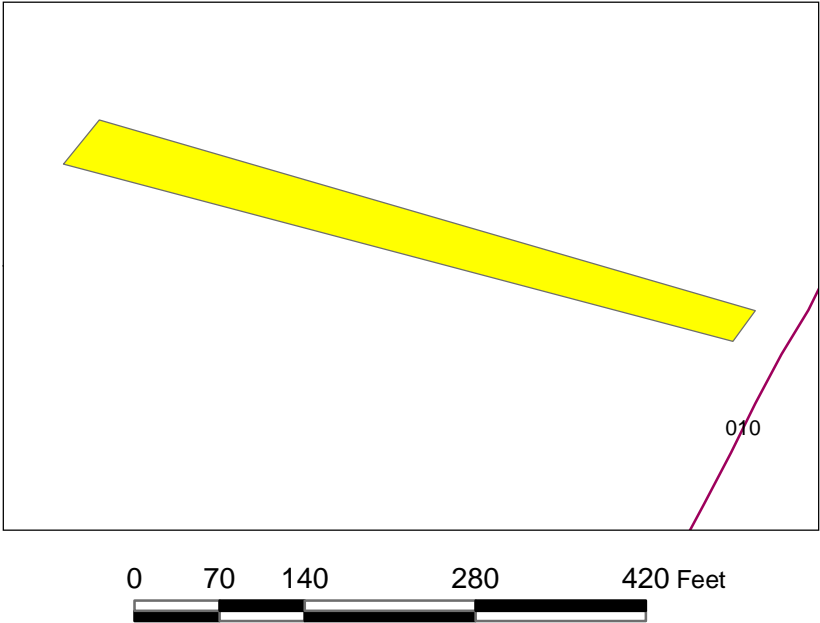
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	2923	Good	\$422



Bear River

Route 914: H-Line Observation Deck Parking

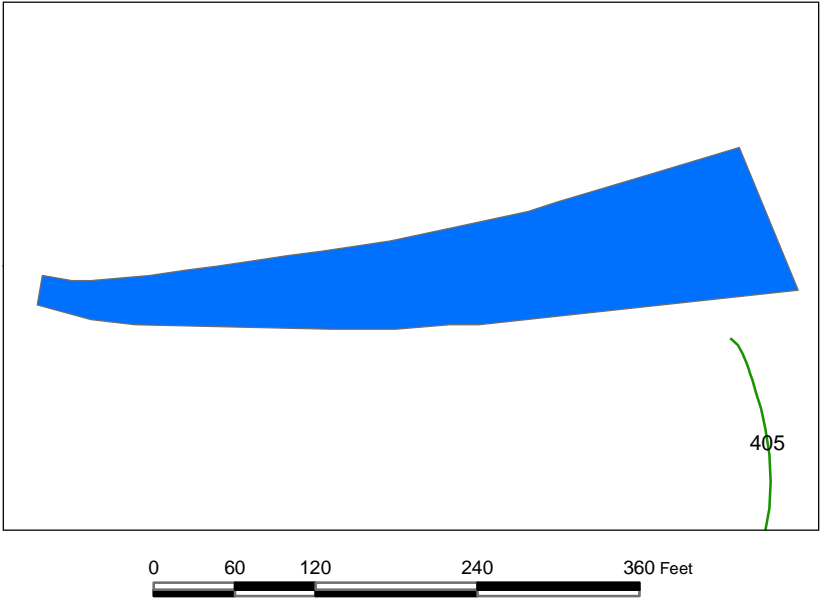
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051741	4/24/2008	Gravel	15380	Fair	\$3917



Bear River

Route 915: Duckville Parking

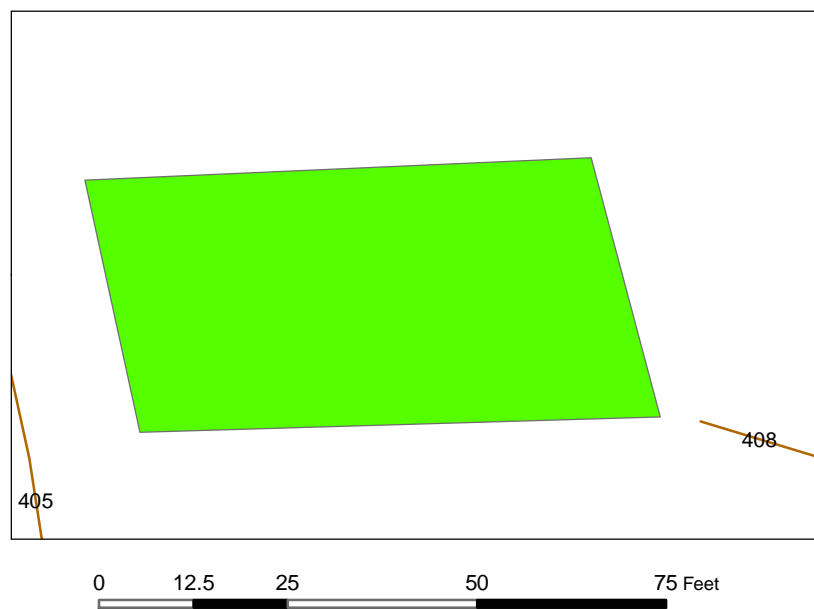
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051743	4/24/2008	Gravel	27388	Excellent	\$0



Bear River

Route 916: Duckville Boat Ramp Parking

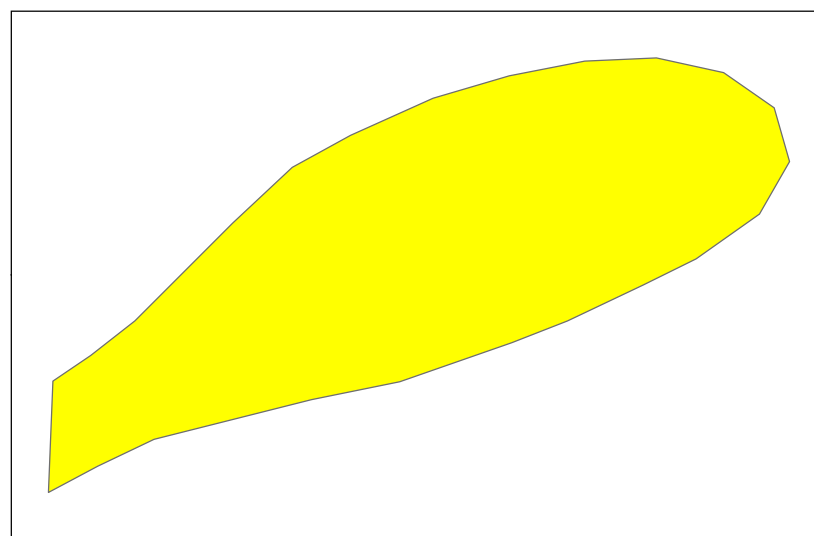
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051743	4/24/2008	Gravel	1747	Good	\$252



Bear River

Route 917: 1100 South Observation Deck Parking

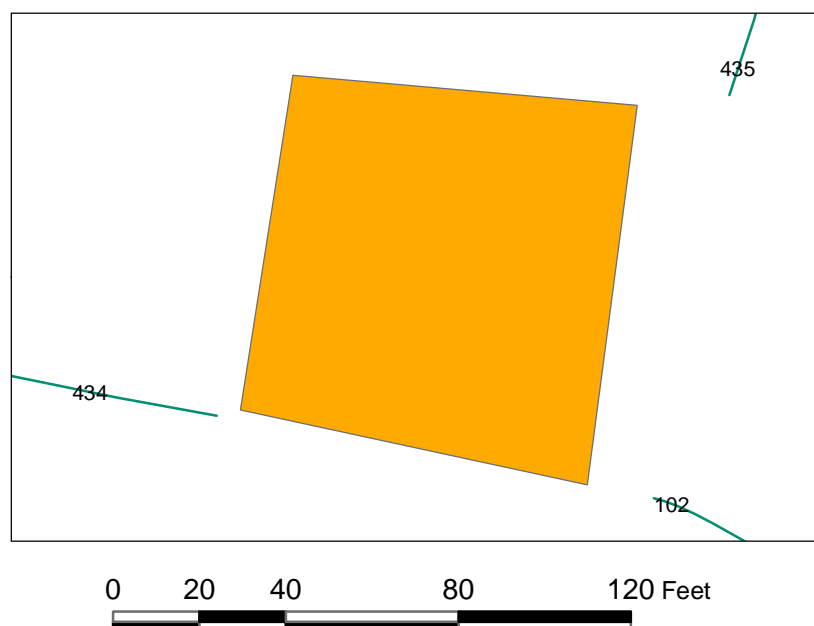
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	6/30/2004	Gravel	3924	Fair	999.44



Bear River

Route 918: White's Parking

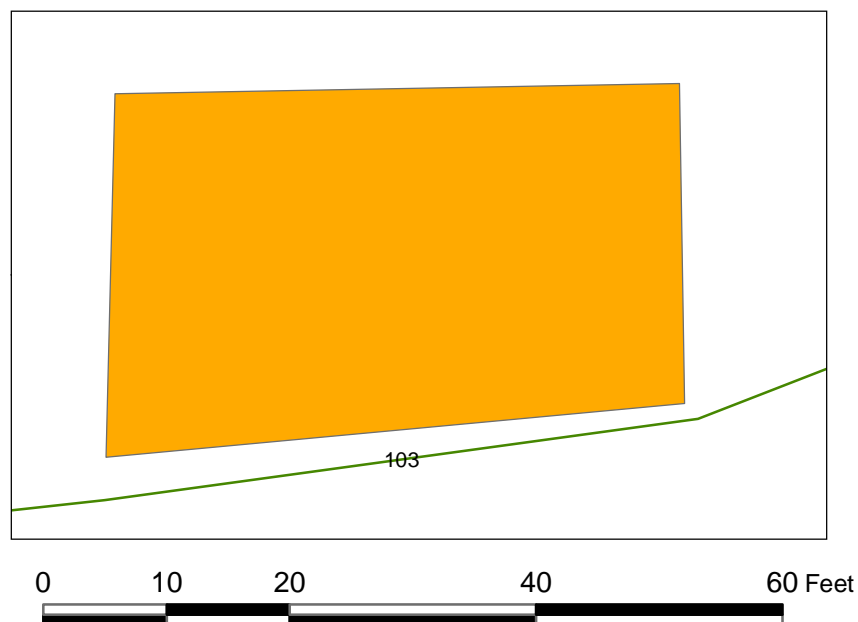
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051744	6/30/2004	Native	5105	Poor	\$3987



Bear River

Route 919: Perry Hunter Parking #1

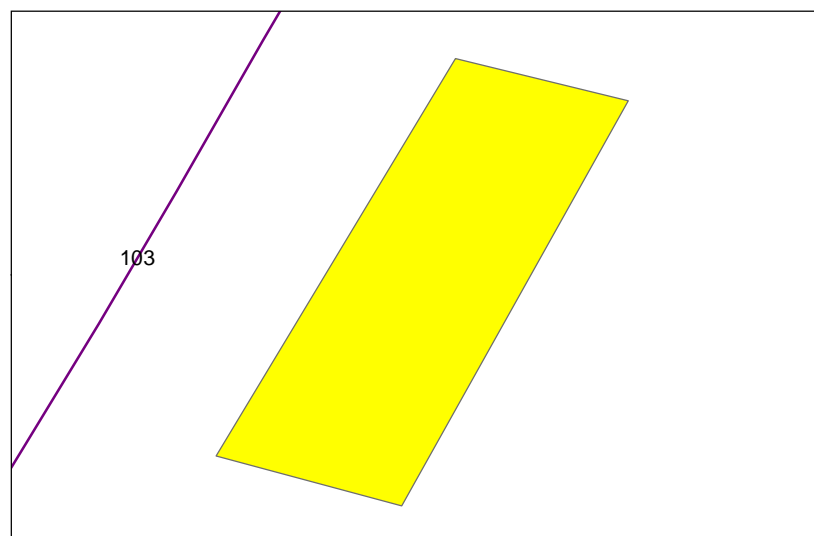
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051746	4/23/2008	Gravel	969	Poor	\$1028



Bear River

Route 920: Perry Hunter Parking #2

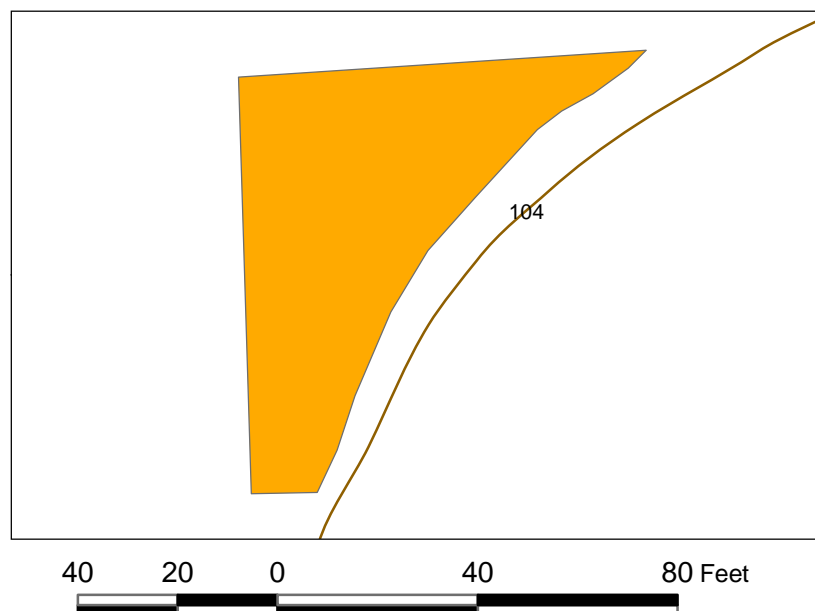
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10051746	4/23/2008	Gravel	3548	Fair	\$904



Bear River

Route 921: Hunter Access Parking Lot

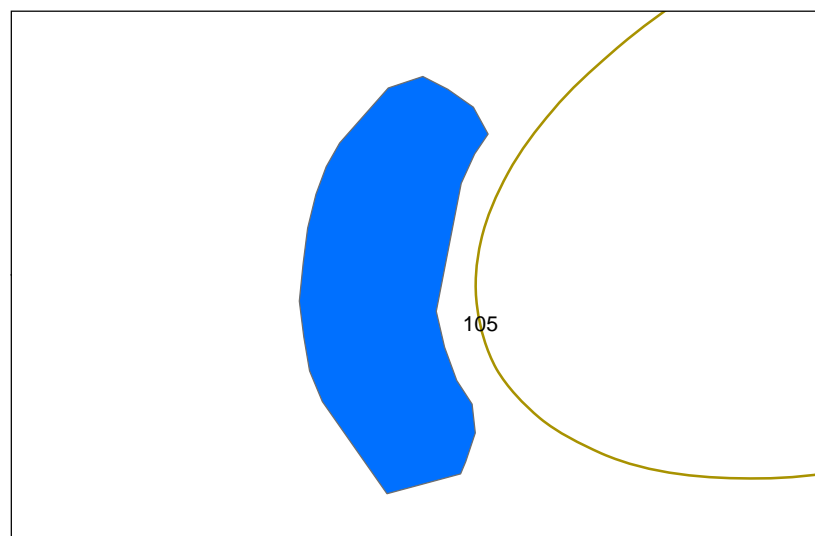
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
	6/30/2004	Gravel	2442	Poor	2591.57



Bear River

Route 922: Education Center Parking #1

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10052695	4/23/2008	Asphalt	2493	Excellent	\$0



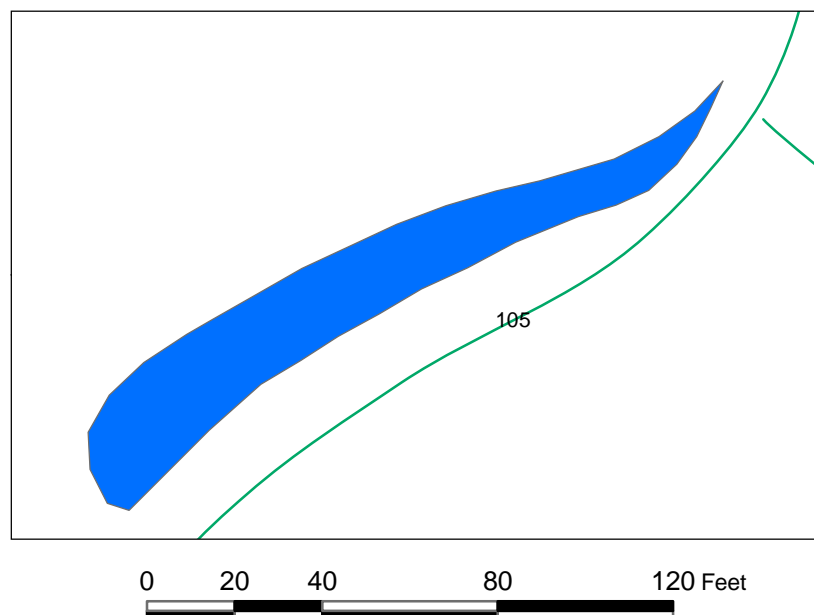
0 20 40 80 120 Feet

A scale bar with markings at 0, 20, 40, 80, and 120 feet.

Bear River

Route 923: Education Center Parking #2

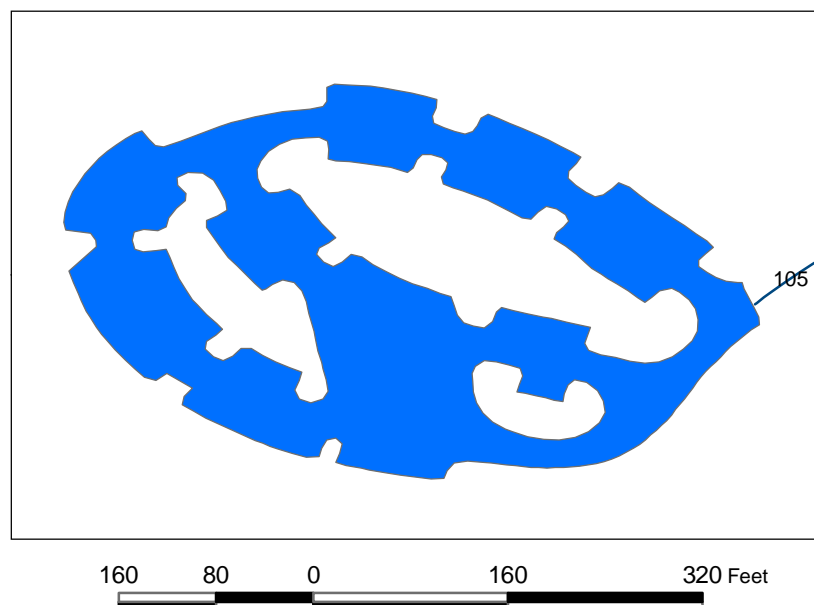
Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10052695	4/23/2008	Concrete	1873	Excellent	\$0



Bear River

Route 924: Education Center Parking #3

Asset Number	Date Visited	Surface Type	Area (sq ft)	Condition	Cost to Improve
10052695	4/23/2008	Asphalt	65337	Excellent	\$0



Bear River Migratory Bird Refuge Bridge Inventory					
Rte #	Milepost	NBIS #	Sufficiency Rating	Functionally Obsolete	Structurally Deficient
010	0.13	000065530-00089	94.00	No	No
010	0.18	000065530-041.2	79.00	No	No
010	0.21	000065530-041.3	79.00	No	No
010	0.39				
010	1.61				
010	2.78				
010	3.97				
010	5.03	000065530-00048	48.50	No	Yes
010	6.31	000065530-00046	80.00	No	No
010	7.32				
010	8.4				
010	8.79				
010	9.64				
105	0.09	000065530-51933	88.00	No	No
302	0.02	000065530-00126	80.70	No	No
302	0.34				
302	0.94				
400	0.01				
403	2.68				
403	2.72				
404	0.62				
409	0.87				
409	1.53				
411	1.26				
411	2.27				
411	2.33				
413	1.29				
414	0.02				
414	0.69				
414	2.02				
417	1.27				
417	2.12				
417	2.34				
418	1.05				
418	1.8				
418	3.32				
419	0	000065530-00127	85.70	No	No
419	0.81				
419	1.53				
419	1.96				
419	3.16				
419	4.01				
419	4.51				
419	5.41				
419	6.56				
419	7.14				
419	7.96				
419	8.78				
419	10.51				

427	0.01				
428	0.05				
429	0.01				
433	0.01				

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4071 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4073 - MP 0.12 - Begin Section 002

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4073 - MP 0.13 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4074 - MP 0.17 - Begin Section 003

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4074 - MP 0.18 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4075 - MP 0.21 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4076 - MP 0.23 - Begin Section 004

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4077 - MP 0.39 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4078 - MP 1.23 - Begin Section 005

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4081 - MP 1.61 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4083 - MP 2.24 - Begin Section 006

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4090 - MP 2.78 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4091 - MP 3.22 - Begin Section 007

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4092 - MP 3.97 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4093 - MP 4.22 - Begin Section 008

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4096 - MP 5.03 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4099 - MP 5.22 - Begin Section 009

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4100 - MP 6.23 - Begin Section 010

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4103 - MP 6.31 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4106 - MP 7.25 - Begin Section 011

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4107 - MP 7.32 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4110 - MP 8.24 - Begin Section 012

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4111 - MP 8.40 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4114 - MP 8.79 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4115 - MP 9.25 - Begin Section 013

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4116 - MP 9.64 - Bridge

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4117 - MP 10.22 - Begin Section 014

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 010 ROUTE NAME: Auto Tour Loop



Photo # 4123 - MP 11.24 - Begin Section 015

ROUTE NUMBER: 102 ROUTE NAME: White's Parking Access Road



Photo # 4020 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 103 ROUTE NAME: Perry Parking Access Road



Photo # 4050 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 104 ROUTE NAME: Hunter Access Road



Photo # 203 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 105 ROUTE NAME: Education Center Entrance Road



Photo # 4032 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 105 ROUTE NAME: Education Center Entrance Road



Photo # 4033 - MP 0.09 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 105 ROUTE NAME: Education Center Entrance Road



Photo # 4034 - MP 0.04 - Begin Section 002

ROUTE NUMBER: 300 ROUTE NAME: Education Center Employee and Fleet Vehicle Parking Access Road



Photo # 4035 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 301 ROUTE NAME: Powerline Road



Photo # 4041 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 302 ROUTE NAME: Bone Yard Access Road



Photo # 4131 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 302 ROUTE NAME: Bone Yard Access Road



Photo # 4131 - MP 0.02 - Bridge

ROUTE NUMBER: 302 ROUTE NAME: Bone Yard Access Road



Photo # 4133 - MP 0.34 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 302 ROUTE NAME: Bone Yard Access Road



Photo # 4133 - MP 0.41 - Begin Section 002

ROUTE NUMBER: 302 ROUTE NAME: Bone Yard Access Road



Photo # 4134 - MP 0.94 - Bridge

ROUTE NUMBER: 302 ROUTE NAME: Bone Yard Access Road



Photo # 4135 - MP 1.33 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 400 ROUTE NAME: North L-Line Dike Road



Photo # 4125 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 400 ROUTE NAME: North L-Line Dike Road



Photo # 4126 - MP 0.01 - Bridge

ROUTE NUMBER: 400 ROUTE NAME: North L-Line Dike Road



Photo # 4127 - MP 1.02 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 401 ROUTE NAME: North L-Line Dike Road #2



Photo # 4128 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 401 ROUTE NAME: North L-Line Dike Road #2



Photo # 4129 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 401 ROUTE NAME: North L-Line Dike Road #2



Photo # 4130 - MP 2.01 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 402 ROUTE NAME: Dike 2C Road



Photo # 4138 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 402 ROUTE NAME: Dike 2C Road



Photo # 4139 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 403 ROUTE NAME: Dike 1A Road



Photo # 4140 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 403 ROUTE NAME: Dike 1A Road



Photo # 4141 - MP 1.02 - Begin Section 002

ROUTE NUMBER: 403 ROUTE NAME: Dike 1A Road



Photo # 4142 - MP 2.01 - Begin Section 003

ROUTE NUMBER: 403 ROUTE NAME: Dike 1A Road



Photo # 4145 - MP 2.68 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 403 ROUTE NAME: Dike 1A Road



Photo # 4144 - MP 2.72 - Bridge

ROUTE NUMBER: 404 ROUTE NAME: Unit 2B Dike Road



Photo # 4146 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 404 ROUTE NAME: Unit 2B Dike Road



Photo # 4147 - MP 0.62 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 404 ROUTE NAME: Unit 2B Dike Road



Photo # 4148 - MP 1.04 - Begin Section 002

ROUTE NUMBER: 405 ROUTE NAME: Duckville West Dike Road



Photo # 4149 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 405 ROUTE NAME: Duckville West Dike Road



Photo # 4150 - MP 0.46 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 406 ROUTE NAME: Duckville South Dike Road



Photo # 4151 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 407 ROUTE NAME: Duckville Center Dike Road



Photo # 4158 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 409 ROUTE NAME: Duckville East Dike Road



Photo # 4169 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 409 ROUTE NAME: Duckville East Dike Road



Photo # 4157 - MP 0.87 - Bridge

ROUTE NUMBER: 409 ROUTE NAME: Duckville East Dike Road



Photo # 4170 - MP 1.00 - Begin Section 002

ROUTE NUMBER: 409 ROUTE NAME: Duckville East Dike Road



Photo # 4171 - MP 1.53 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 410 ROUTE NAME: 3B North Road



Photo # 4172 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4173 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4175 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4176 - MP 1.26 - Bridge

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4177 - MP 1.93 - Begin Section 003

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4178 - MP 2.27 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4179 - MP 2.33 - Bridge

ROUTE NUMBER: 411 ROUTE NAME: H-Line East Dike Road



Photo # 4180 - MP 2.91 - Begin Section 004

ROUTE NUMBER: 412 ROUTE NAME: 3B South Dike Road



Photo # 4181 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 412 ROUTE NAME: 3B South Dike Road



Photo # 4184 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 413 ROUTE NAME: Cottonwood Dike Road



Photo # 4187 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 413 ROUTE NAME: Cottonwood Dike Road



Photo # 4188 - MP 1.04 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 413 ROUTE NAME: Cottonwood Dike Road



Photo # 4189 - MP 1.29 - Bridge

ROUTE NUMBER: 413 ROUTE NAME: Cottonwood Dike Road



Photo # 4190 - MP 2.01 - Begin Section 003

ROUTE NUMBER: 414 ROUTE NAME: Unit 3 Drain East Dike Road



Photo # 4191 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 414 ROUTE NAME: Unit 3 Drain East Dike Road



Photo # 4192 - MP 0.02 - Bridge

ROUTE NUMBER: 414 ROUTE NAME: Unit 3 Drain East Dike Road



Photo # 4193 - MP 0.69 - Bridge

ROUTE NUMBER: 414 ROUTE NAME: Unit 3 Drain East Dike Road



Photo # 4194 - MP 1.04 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 414 ROUTE NAME: Unit 3 Drain East Dike Road



Photo # 4195 - MP 2.01 - Begin Section 003

ROUTE NUMBER: 414 ROUTE NAME: Unit 3 Drain East Dike Road



Photo # 4195 - MP 2.02 - Bridge

ROUTE NUMBER: 415 ROUTE NAME: South 3G Dike Road



Photo # 4196 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 415 ROUTE NAME: South 3G Dike Road



Photo # 4197 - MP 1.03 - Begin Section 002

ROUTE NUMBER: 416 ROUTE NAME: 3F South Dike Road



Photo # 4198 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 416 ROUTE NAME: 3F South Dike Road



Photo # 4199 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4200 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4201 - MP 1.01 - Begin Section 002

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4202 - MP 1.27 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4203 - MP 2.03 - Begin Section 003

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4204 - MP 2.12 - Bridge

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4205 - MP 2.34 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 417 ROUTE NAME: West O-Line Dike Road



Photo # 4206 - MP 3.02 - Begin Section 004

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4207 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4208 - MP 1.02 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4208 - MP 1.05 - Bridge

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4209 - MP 1.80 - Bridge

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4210 - MP 2.03 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4211 - MP 3.02 - Begin Section 004

ROUTE NUMBER: 418 ROUTE NAME: East O-Line Dike Road



Photo # 4212 - MP 3.32 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4213 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4213 - MP 0.00 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4214 - MP 0.81 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4215 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4216 - MP 1.53 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4217 - MP 1.96 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4218 - MP 2.01 - Begin Section 003

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4219 - MP 3.03 - Begin Section 004

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4220 - MP 3.16 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4221 - MP 3.99 - Begin Section 005

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4221 - MP 4.01 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4222 - MP 4.51 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road

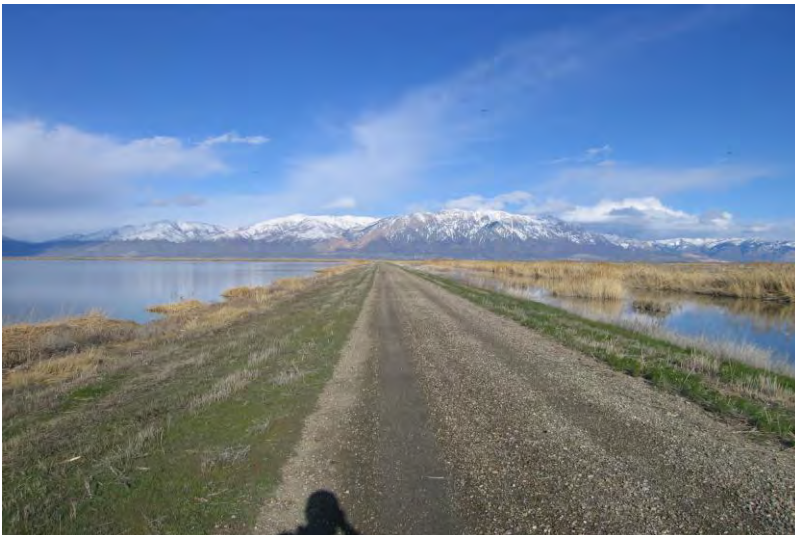


Photo # 4223 - MP 5.02 - Begin Section 006

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4224 - MP 5.41 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4225 - MP 5.99 - Begin Section 007

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4226 - MP 6.56 - Bridge

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4228 - MP 7.14 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4229 - MP 7.96 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4230 - MP 7.98 - Begin Section 009

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4231 - MP 8.78 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4232 - MP 8.97 - Begin Section 010

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road

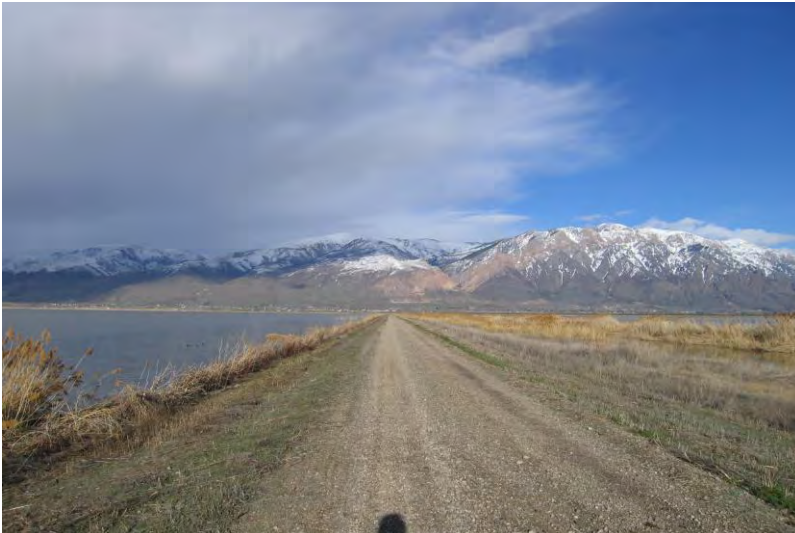


Photo # 4233 - MP 9.97 - Begin Section 011

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4234 - MP 10.51 - Bridge

ROUTE NUMBER: 419 ROUTE NAME: D-Line Dike Road



Photo # 4236 - MP 11.97 - Begin Section 013

ROUTE NUMBER: 420 ROUTE NAME: Nichols Pond 2 Road



Photo # 4252 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 421 ROUTE NAME: Nichols Pond 3 Road



Photo # 4139 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 422 ROUTE NAME: Nichols Pond 4 Road



Photo # 4246 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 423 ROUTE NAME: Nichols Pond 5 Road



Photo # 4243 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 424 ROUTE NAME: Nichols Unit Access Road



Photo # 4138 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 425 ROUTE NAME: 4B Dike Road



Photo # 4257 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 425 ROUTE NAME: 4B Dike Road



Photo # 4258 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 425 ROUTE NAME: 4B Dike Road



Photo # 4259 - MP 1.38 - Begin Section 003

ROUTE NUMBER: 426 ROUTE NAME: 4C Dike Road



Photo # 4260 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 426 ROUTE NAME: 4C Dike Road



Photo # 4261 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 426 ROUTE NAME: 4C Dike Road



Photo # 4262 - MP 2.00 - Begin Section 003

ROUTE NUMBER: 426 ROUTE NAME: 4C Dike Road



Photo # 4263 - MP 3.00 - Begin Section 004

ROUTE NUMBER: 427 ROUTE NAME: Whistler (P-Line) West Road



Photo # 4264 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 427 ROUTE NAME: Whistler (P-Line) West Road



Photo # 4264 - MP 0.01 - Bridge

ROUTE NUMBER: 427 ROUTE NAME: Whistler (P-Line) West Road



Photo # 4265 - MP 1.06 - Begin Section 002

ROUTE NUMBER: 428 ROUTE NAME: Whistler (P-Line) East Road



Photo # 4266 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 428 ROUTE NAME: Whistler (P-Line) East Road



Photo # 4267 - MP 0.05 - Bridge

ROUTE NUMBER: 428 ROUTE NAME: Whistler (P-Line) East Road



Photo # 4268 - MP 1.06 - Begin Section 002

ROUTE NUMBER: 429 ROUTE NAME: Dike Service Road



Photo # 4269 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 429 ROUTE NAME: Dike Service Road



Photo # 4269 - MP 0.01 - Bridge

ROUTE NUMBER: 429 ROUTE NAME: Dike Service Road



Photo # 4274 - MP 1.46 - Begin Section 002

ROUTE NUMBER: 430 ROUTE NAME: West Unit 5 Drain Dike Road



Photo # 4277 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 431 ROUTE NAME: East Unit 5 Drain Dike Road



Photo # 4278 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 432 ROUTE NAME: 5C North Dike Road West



Photo # 4279 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 432 ROUTE NAME: 5C North Dike Road West



Photo # 4282 - MP 1.01 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 433 ROUTE NAME: 5C North Dike Road East



Photo # 4283 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 433 ROUTE NAME: 5C North Dike Road East



Photo # 4283 - MP 0.01 - Bridge

ROUTE NUMBER: 433 ROUTE NAME: 5C North Dike Road East



Photo # 4292 - MP 1.00 - Begin Section 002

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 434 ROUTE NAME: W7 Pond Access Road



Photo # 4295 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 435 ROUTE NAME: W5 Pond Access Road



Photo # 4302 - MP 0.00 - Begin Route at Begin Section

ROUTE NUMBER: 436 ROUTE NAME: North Nichols Access Road



Photo # 4255 - MP 0.00 - Begin Route at Begin Section

FEATURES PHOTOGRAPHS

ROUTE NUMBER: 436 ROUTE NAME: North Nichols Access Road



Photo # 4256 - MP 0.29 - Begin Section 002

Accident Summary

Number of Accidents Reported	Timespan of Accidents	Injuries	Fatalities
0	No Accidents to Report	0	0

APPENDIX

TABLE 1 - GENERAL FWS ROAD FUNCTIONAL CLASSIFICATION	
Class I	Principal Refuge Road (Public Roads) - Routes that constitute the main access route, main auto tour route, or thoroughfare for refuge visitors. These routes are accessible by 2WD vehicles. Routes are numbered from 10 to 99.
Class II	Connector Refuge Road (Public Roads) - Routes that provide circulation within the refuge. These routes can also provide access to areas of scenic, scientific, recreational or cultural interest, such as overlooks, campgrounds, education centers, etc. These routes are accessible by 2WD vehicles. Routes are numbered from 100 to 199.
Class III	Special Purpose Refuge Road (Public Roads) - Roads that provide circulation within special use areas such as campgrounds or public concessionaire facilities or access to remote areas of the refuge. These routes may not be 2WD accessible. Routes are numbered from 200 to 299
Class IV	Administrative Access Road (Administrative Roads) - Routes intended for access to administrative developments or structures such as maintenance offices, employee quarters, or utility areas. These routes are accessible by 2WD vehicles. These routes may restrict access to the general public. Routes are numbered from 300 to 399.
Class V	Restricted Road (Administrative Roads) - Routes normally closed to the public, such as maintenance roads, service roads, patrol roads, and fire breaks. These routes may be open to the public for a short period of time for a special use, such as hunting access. These routes may not be 2WD accessible. Routes are numbered from 400 to 499.

A refuge road system contains those routes within or giving access to a refuge or other unit of the FWS that are administered by the FWS, or by the Service in cooperation with other agencies. The assignment of a functional classification (FC) to a refuge road is not based on traffic volumes or design speed, but on the intended use or function of that route

DESCRIPTION OF RATING SYSTEM

Rating Data is collected on four different surface types: Asphalt, Concrete, Gravel, and Native. The Utah LTAP Center's Remaining Service Life (RSL) system is used for all surface types. The RSL system is based on the Strategic Highway Research Program's (SHRP) Distress Identification Manual.

Asphalt Rating System

Data is collected on the following distresses and conditions:

- **Fatigue Cracking** - Interconnected cracks forming small irregular shapes.
- **Longitudinal Cracking** - Cracks running parallel with the roadway, in the direction of traffic.
- **Transverse Cracking** - Cracks perpendicular to the roadway, going across the lane or lanes.
- **Block Cracking** - Interconnected cracks forming large blocks.
- **Edge Cracking** - Cracks running along the edge of the pavement surface.
- **Patches** - Original surface repaired with new asphalt patch material.
- **Potholes** - Holes or depressions in the pavement.
- **Rutting** - surface depressions in the wheel paths.
- **Roughness** - Evenness of pavement for serviceability.
- **Drainage** - Ability of the road surface to drain water based on proper slope.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

Fatigue, longitudinal, transverse, block, and edge cracking, along with patching and potholes are rated on a 0 - 9 scale (0 = no distress, 9 = maximum distress). The rating given is based on the extent and the severity of the distress. Rutting, roughness, and drainage are rated on a 0 - 3 scale (0 = excellent, 3 = poor). Each distress type has given Remaining Service Life (RSL) values (in years) based on the rating for that particular distress. The distress with the rating resulting in the lowest RSL value is considered to be the governing distress. That value is then assigned as the RSL of the road segment.

Concrete Rating System

Data is collected on the following distresses and conditions:

- **Spalling of Joints** - Chipping, breaking, or cracking of slab edges
- **Joint Seal Damage** - Any damage or condition that enables materials or water to infiltrate into the joint from the surface.
- **Corner Breaks** - A portion of the slab separated by a crack that intersects the adjacent transverse and longitudinal joints, forming approximately a 45° angle to the direction.
- **Broken Slabs** - Faulting and/or cracking localized to individual slabs.

- **Faulting** – Difference in elevation across a crack or joint.
- **Longitudinal Cracking** – Cracks in the pavement running parallel to road.
- **Transverse Cracking** - Cracks in the pavement running perpendicular to the direction of traffic.
- **Patch Deterioration** – Faulting, settling, or cracking of previously placed patch
- **Map Cracking** – A series of cracks that extend only into the upper surface of the Slab

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for concrete pavement is the same as that for asphalt pavement described previously. Each of the distresses described above are rated on the same 0 – 9 scale. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Gravel and Native Rating System

Data is collected on the following distresses and conditions:

- **Cross Section (Crown)** - Roadway built so that the center is higher than the shoulder, to prevent water from pooling on roadway.
- **Roadside Drainage** - Roadside ditches and culverts to handle water flow and prevent pooling on the roadside.
- **Corrugations (Washboarding)** - Small trenches or holes developing perpendicular to the roadway.
- **Potholes** - Holes or depressions in the roadway.
- **Rutting** - Depressions running parallel with the roadway, in the wheelpaths.
- **Dust** - Amount of dust caused by traffic.
- **Loose Aggregate (Gravel Only)** - Loose gravel, typically piled up on the roadway edges or centerline.

A Condition Rating value is calculated for each homogenous pavement section, and can be up to 1 mile in length.

Rating Index Formula

The rating procedure for unpaved roads is the same as that for asphalt and concrete pavements described previously. Of the distresses described above, corrugations, potholes, rutting, and loose aggregate are rated on the same 0 – 9 scale previously mentioned. Cross section, roadside drainage, and dust are rated on the same 0 – 3 scale described for asphalt pavement. The governing distress is then determined and the RSL associated with that distress is assigned to the road segment.

Condition Descriptions by Surface Type

The following definitions are used to describe pavement condition for the various surface types. These are general guidelines for condition indications.

Asphalt

Excellent – Recently constructed or overlaid road where construction or overlay was performed correctly- No maintenance required. RSL = 19-20 years.

Good – Low extent longitudinal and transverse cracks. All cracks are 1/4" or less with little or no crack erosion. Patches are in good condition and applied correctly. Routine Maintenance recommended. RSL = 13-18 years.

Fair - Roads are in good structural condition with little or no fatigue cracking. Longitudinal, transverse, and edge cracking is at medium extent and severity. Block cracking is not extensive. Any patches are in good condition. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Road beginning to show signs of structural distress. Fatigue cracking is medium to high extent and medium severity. Cracking will be severe. Surface may have severe block cracking and show. Patches are in fair to poor condition. There is moderate distortion or rutting and occasional potholes. Rehabilitation recommended. RSL = 1-6 years.

Failed - Road is severely deteriorated. Signs of structural failure appear along with severe and extensive fatigue cracking, distortion, potholes, or extensive patches in poor condition. Reconstruction recommended. RSL = 0 years.

Concrete

Excellent - New pavement. No maintenance required. RSL = 19-20 years

Good - First signs of transverse cracking, patch or repair, more extensive pop-outs, or scaling. Sealing or routine maintenance recommended. RSL = 13-18 years.

Fair – Pavement has joint or crack spalling, and/or faulting, along with cracking at corners with broken pieces. Any Patches are in fair condition and faulting is at a minimum. Preventative maintenance recommended. RSL = 7-12 years.

Poor - Joints and cracks are open 1 inch, spalled, or patched. Faulting is more severe. Rehabilitation recommended. RSL = 1-6 years.

Failed - Most slabs have failed structurally, and faulting is severe. Reconstruction recommended. RSL = 0 years.11-9

The following table shows the relationship between RSL and condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Asphalt and Concrete Pavements)								
	FAILED	POOR		FAIR		GOOD		EXCELLENT
RSL Years	0	1-3	4-6	7-9	10-12	13-15	16-18	19-20

Gravel and Native

Note - Native surfaces do not have a gravel layer.

Excellent - Newly constructed road that has been constructed properly with proper crown, drainage and gravel layer. Little or no distress. No maintenance recommended. RSL = 8-10 years.

Good - Crown, drainage provisions, and gravel layer are in good condition. Distress limited to traffic effects such as dust, loose aggregate, and low severity corrugations (wash boarding). RSL = 5-7 years.

Fair - Adequate drainage and crown through majority of roadway. Crown repair, ditch improvement may be necessary. Road has more severe corrugations and potholes. Preventative maintenance recommended. RSL = 3-4 years.

Poor - Travel at slow speeds is necessary. Additional gravel layer needed to carry traffic. Poor crown. Ditching is inadequate and rutting is extensive and severe. Rehabilitation recommended. RSL = 1-2 years.

Failed - Travel is difficult, and road may be closed at times. Rutting and Corrugations are very severe. Total Reconstruction of road is recommended. RSL = 0 years.

The following table shows the RSL values for gravel and native roads in terms of excellent, good, fair, poor, and failed condition.

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE (Gravel and Native Surfaces)					
	FAILED	POOR	FAIR	GOOD	EXCELLENT
RSL Years	0	1-2	3-4	5-7	8-10

NATIVE PRIMITIVE/IMPROVED RATING SHEET

Cross Section (Crown)*

Severity	Condition		Description
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.
	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.
	Moderate Defects	2	Flat crown, drainage to ditch restricted.
	Major Defects	3	Reverse crown, bowl-shaped road, drainage on roadway

Rutting

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 6"	1	2	3
	Med 6-12"	4	5	6
	High > 12"	7	8	9

Roadside Drainage*

Severity	Condition		Description
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.

Potholes

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 6"	1	2	3
	Med 6-12"	4	5	6
	High > 12"	7	8	9

Dust

Severity	Condition		Description
	No Defects	0	No obstruction to sight distance.
	Minor Defects	1	Sight distance > 550'
	Moderate Defects	2	Sight distance 225'-550'
	Major Defects	3	Sight distance < 225'

Corrugations

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 3"	1	2	3
	Med 3-6"	4	5	6
	High > 6"	7	8	9

* Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

GRAVEL RATING SHEET

Cross Section (Crown)

Severity	Condition		Description
	No Defects	0	Crown 4-6" with no restriction of water flow from centerline to ditch.
	Minor Defects	1	Inadequate or inconsistent crown. Drainage to ditch may be restricted.
	Moderate Defects	2	Flat crown, drainage to ditch restricted.
	Major Defects	3	Reverse crown, bowl-shaped road, drainage on roadway

Rutting

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

Roadside Drainage

Severity	Condition		Description
	No Defects	0	Wide, deep ditches (>4') with no restriction to water flow.
	Minor Defects	1	Adequate ditches (>2' deep), minor obstructions restrict water flow.
	Moderate Defects	2	Shallow, narrow and obstructed ditches. Minor erosion of road.
	Major Defects	3	No ditch, drainage on roadway with moderate to severe erosion.

Potholes

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

Dust

Severity	Condition		Description
	No Defects	0	No obstruction to sight distance.
	Minor Defects	1	Sight distance > 550'
	Moderate Defects	2	Sight distance 225'-550'
	Major Defects	3	Sight distance < 225'

Corrugations

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 2"	1	2	3
	Med 2-4"	4	5	6
	High > 4"	7	8	9

* Crown and Drainage are not rated for roads that have no constructed crown or drainage. This applies to Native and Gravel roads.

Loose Aggregate

Severity	Extent (Area)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low < 1"	1	2	3
	Med 1-3"	4	5	6
	High > 3"	7	8	9

ASPHALT RATING SHEET

Fatigue Cracking

Severity	Extent			
	No Defects	Low 1 crack WP	Med 2 cracks WP	High >30% length
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

Edge Cracking

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	0-6" from curb	1	2	3
	6-18" from curb	4	5	6
	> 18" from curb	7	8	9

Longitudinal Cracking

Severity	Extent			
	No Defects	Low 1 crack full length	Med 2 cracks full length	High >2 cracks full length
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

Block Cracking

Severity	Extent (Length)			
	No Defects	Low > 15x15' squares	Med 15-10' squares	High <10x10' squares
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

Transverse Cracking

Severity	Extent (ft between cracks)			
	No Defects	Low > 200'	Med 200-50'	High < 50'
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

Utility Cuts

Severity	Extent (Length)			
	No Defects	Low <10%	Med 10-30%	High >30%
	Low-Cracks < 1/4"	1	2	3
	Med-Cracks 1/4-3/4"	4	5	6
	High-Cracks > 3/4"	7	8	9

Drainage/Roughness/Rutting

Severity	Condition		Description
	No Defects	0	Wide, deep ditches with no obstructions, smooth ride, no rutting, no potholes.
	Minor Defects	1	Drainage may be obstructed, < 1" rutting, minor roughness.
	Moderate Defects	2	Poor drainage, 1-2" rutting, noticeable roughness, potholes < 6" wide.
	Major Defects	3	No drainage; > 2" rutting; potholes 6-12" wide create roughness requiring reduced speeds.

CONCRETE RATING SHEET

Spalling of Joints

Extent (% joints)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low Spalls < 3"	1	2	3
	Med Spalls 3-6"	4	5	6
	High Spalls > 6"	7	8	9

Broken Slabs

Extent (% slabs)				
No Defects	Low <5%	Med 5-15%	High >15%	
Severity	Low-no more than 3 pieces, no spalling/faulting	1	2	3
	Med-broken into >3 pieces, spalling/faulting <1/4"	4	5	6
	High-4 or more pieces, spalling/faulting >1/4"	7	8	9

Transverse Cracks

Extent (% slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
	Med-Cracks 1/8-1/2"; spall <3", fault >1/4"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/4"	7	8	9

Joint Seal Damage

Extent (%joints)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low <10% joint length	1	2	3
	Med 10-50% joint length	4	5	6
	High >50% joint length	7	8	9

Faulting

Extent (Length)				
No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low < 1/2"	1	2	3
	Med 1/2-1"	4	5	6
	High > 1"	7	8	9

Patch Deterioration

Extent (Area)				
No Defects	Low <10%	Med 10-30%	High >30%	
Severity	Low-no fault, no settle at perimeter	1	2	3
	Med-fault & settle <1/4" at perimeter	4	5	6
	High-fault & settle >1/4" at perimeter, cracked patch	7	8	9

Corner Breaks

Extent (% of slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-corner cracks, no spalling or faulting	1	2	3
	Med-crack slightly spalled & faulted <1/4"	4	5	6
	High-crack highly spalled & faulted >1/4"	7	8	9

Longitudinal Cracks

Extent (% slabs)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-Cracks < 1/8"; no spalling/faulting	1	2	3
	Med-Cracks 1/8-1/2"; spall <3", fault >1/2"	4	5	6
	High-Cracks > 1/2"; spall >3", fault >1/2"	7	8	9

Map Cracks

Extent (Area)				
No Defects	Low <10%	Med 10-20%	High >20%	
Severity	Low-small connected cracks, no spalling	1	2	3
	Med-connected cracks, no spalling	4	5	6
	High-large connected cracks with surface spalling	7	8	9

Deficiency Ratings With Associated Remaining Service Life

Asphalt Rating Sheet

Fatigue Cracking		Edge Cracking		Transverse Cracking		Utility Cuts	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20	0	20
1	10	1	12	1	14	1	14
2	8	2	10	2	12	2	12
3	6	3	8	3	10	3	10
4	8	4	10	4	12	4	12
5	6	5	8	5	10	5	10
6	4	6	6	6	8	6	8
7	6	7	8	7	10	7	10
8	2	8	6	8	6	8	6
9	0	9	4	9	2	9	2

Longitudinal Cracking		Block Cracking		Drainage/Roughness/Rutting	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	14	1	12	1	16
2	12	2	10	2	10
3	10	3	8	3	4
4	12	4	10		
5	10	5	8		
6	8	6	6		
7	10	7	12		
8	8	8	6		
9	6	9	2		

Concrete Rating Sheet

Spalling		Broken Slabs		Transverse Cracks	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	20
1	15	1	15	1	18
2	12	2	12	2	15
3	10	3	10	3	12
4	12	4	12	4	15
5	10	5	10	5	10
6	8	6	8	6	6
7	10	7	10	7	10
8	6	8	6	8	4
9	0	9	0	9	0

Joint Seal Damage		Faulting		Patch Deterioration	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	20	0	20	0	18
1	16	1	15	1	16
2	14	2	12	2	14
3	12	3	10	3	12
4	14	4	12	4	12
5	10	5	8	5	10
6	8	6	6	6	8
7	12	7	10	7	10
8	8	8	4	8	6
9	6	9	0	9	0

Corner Breaks		Longitudinal Cracks		Map Cracks	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	18	0	20	0	20
1	16	1	18	1	18
2	14	2	15	2	15
3	12	3	12	3	12
4	12	4	15	4	12
5	10	5	10	5	10
6	8	6	6	6	6
7	10	7	10	7	10
8	6	8	4	8	4
9	0	9	0	9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Asphalt & Concrete Roads)

RSL	FAILED 0	POOR 1 - 6	FAIR 7 - 12	GOOD 13 - 18	EXCELLENT 19 - 20
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Deficiency Ratings With Associated Remaining Service Life

Native Primitive Improved Rating Sheet

Cross Section		Rutting		Roadside Drainage	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	7	1	9	1	8
2	5	2	7	2	4
3	0	3	5	3	0
		4	7		
		5	4		
		6	3		
		7	4		
		8	2		
		9	0		

Potholes		Dust		Corrugations	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	9	1	8	1	9
2	7	2	6	2	7
3	5	3	2	3	7
4	7			4	6
5	4			5	5
6	3			6	5
7	4			7	4
8	2			8	3
9	0			9	0

Gravel Rating Sheet

Cross Section		Rutting		Roadside Drainage	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	7	1	9	1	8
2	5	2	7	2	4
3	0	3	5	3	0
		4	7		
		5	4		
		6	3		
		7	4		
		8	2		
		9	0		

Potholes		Dust		Corrugations	
Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life	Distress Rating	Remaining Service Life
0	10	0	10	0	10
1	9	1	8	1	9
2	7	2	6	2	7
3	5	3	2	3	7
4	7			4	6
5	4			5	5
6	3			6	5
7	4			7	4
8	2			8	3
9	0			9	0

Loose Aggregate	
Distress Rating	Remaining Service Life
0	10
1	9
2	8
3	7
4	8
5	7
6	6
7	5
8	3
9	0

SUBJECTIVE CONDITION RATING FOR REMAINING SERVICE LIFE IN YEARS (Gravel & Native Roads)

RSL	FAILED	POOR	FAIR	GOOD	EXCELLENT
	0	1 - 2	3 - 4	5 - 7	8 - 10